JAN 1961

JOINT DIRECTORS

Professor S. Warren Carey
Professor Gordon H. Newstead

Box 252c, G.P.O.,
Hobart, Tasmania.

International Seismological Centre

TASMANIA UNIVERSITY RADIO-TELEMETERED SEISMIC NET

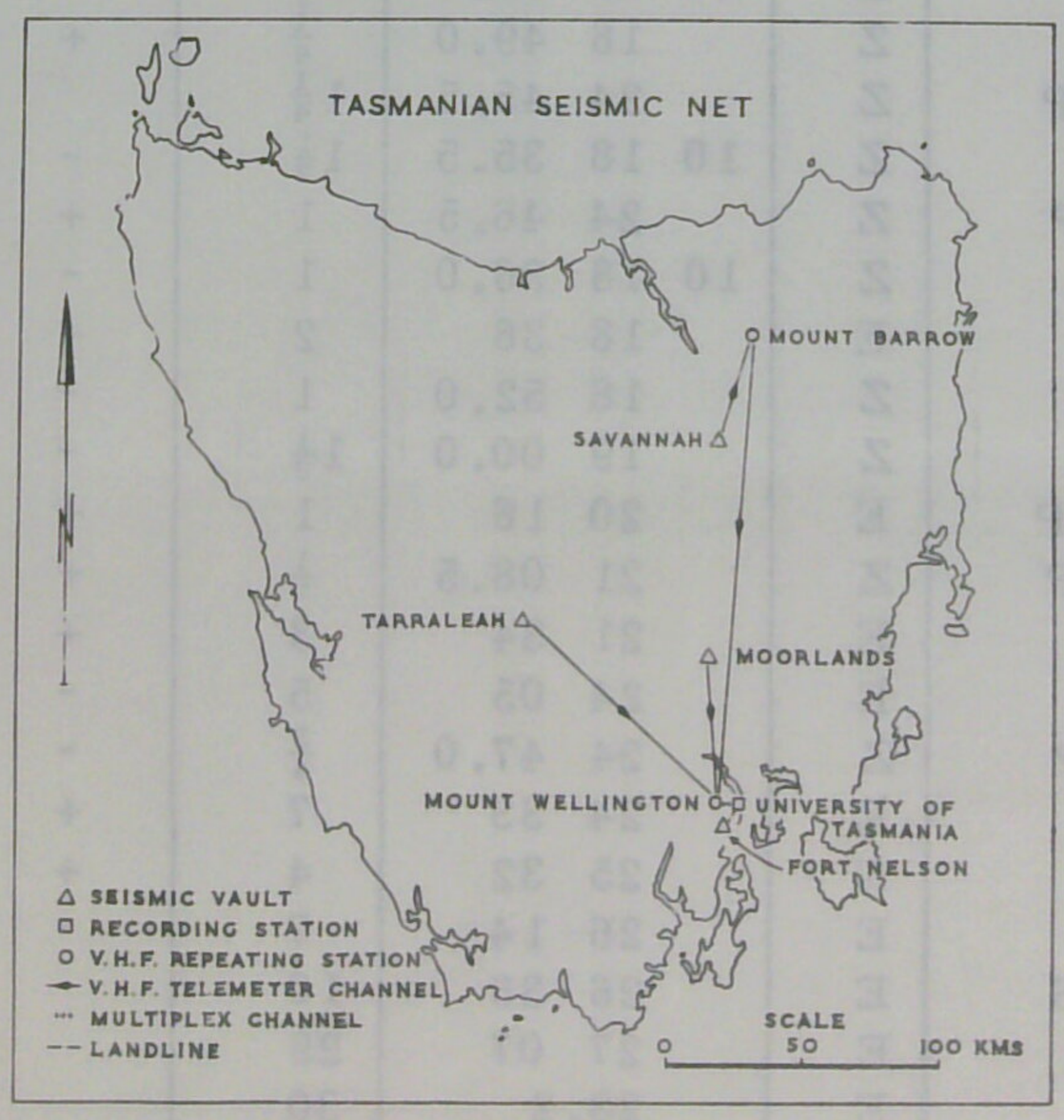
Station	Co-ordinates		Altitudes (metres)	Foundations
Fort Nelson (FN)	42°55'35.39"S	147°21'13.02"E	184.1	Dolerite
Tarraleah (T)	42°18'16.34"S	146°27'03.51"E	579.1	Basalt
Moorlands (M)	42°26'33.31"S	147°11'29.26"E	324.6	Top contact of dolerite sill
Savannah (S)	41°43'17.59"S	147°11'22.41"E	179.8	Dolerite

Inter-station distances (metres)		Bearings	Back Bearings
FN – T	101285	305°42'15"	133°18'55"
FN – M	55375	346°03'28"	166°10'04"
FN – S	134526	354°10'30"	174°17'08"
T – M	62891	104°21'43"	283°51'46"
T – S	89086	43°27'24"	223°07'44"
M – S	80089	359°53'12"	179°53'17"

TIME

All stations are radio-telemetered to record on a single multipen recorder (90 mm. per min., response to 50 cycles per sec.) timed by a Rohdë & Schwartz quartz crystal clock. The system is also recorded in parallel on multi-channel magnetic tape.

Seismometer installations not yet permanent, current installation is given overleaf.



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PROVISIONAL SEISMOLOGICAL BULLETIN

January, 1961

Instruments:

FN Sprengnether (Series H) EW, pendulum 15.3 sec., galvanometer 6¾ sec.
FN Willmore short period vertical (operating intermittently)
M Willmore short period vertical " "
T Willmore short period vertical " "

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s		
1	Jan. • 1	T	iP	Z	13 15 50.0	¾	-	Dilatation
		FN	iP	Z	13 15 50.0	1	-	Dilatation
								USCGS: 12.9S, 167.2E
								H 13 09 06.4, h 87 km
2	1	T	eP	Z	19 45 20.0	¾		USCGS: 54.1S, 7.4E
			i	Z	45 23.5	½	+	H 19 33 20.1, h 91 km
3	1	T	eP	Z	20 26 03.5	1		USCGS: 49.5S, 125.5E
			i	Z	26 06.0	1	+	H 20 22 14.6, h 59 km
			e	Z	26 46.5	1		
		M	eP	Z	20 26 09.0	1		
4	2	T	iP	Z	04 43 57.0	½	-	Dilatation
			i	Z	44 04.0	¾	-	
5	2	M	iP	Z	10 18 33.0	1½	-	Dilatation
			ipP	Z	18 49.0	¼	+	
			eScP	Z	24 45.5	1¼		
		T	iP	Z	10 18 35.5	1½	-	Dilatation
			iScP	Z	24 46.5	1	+	
		FN	iP	Z	10 18 36.0	1	-	Dilatation
			iP	E	18 36	2	+	
			ipP	Z	18 52.0	1	-	H 10 11 50
			isP	Z	19 00.0	1½	-	Δ 34°.8, h 0.005
			iPPP	E	20 16	1	+	
			iPcP	Z	21 08.5	½	+	
			i	E	21 34	3	+	USCGS: 12.4S, 166.4E
			iS	E	24 05	5	-	H 10 11 56.7, h 161 km
			iScP	Z	24 47.0	¾	-	
			isS	E	24 33	7	+	
			i	E	25 32	4	+	
			iSS	E	26 14	7	-	
			eSSS	E	26 36	10		
			e(L)	E	27 07	29		
			eL	E	28.2	30		
			M	E	28.9	24		

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No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
6	Jan. 2	T	eP	Z	20 58 53.5	$\frac{3}{4}$		
		M	iP	Z	20 58 54.0	1	-	Dilatation
			ipP	Z	59 04.5	1	+	
		FN	eP	Z	20 58 57.5	$\frac{3}{4}$		USCGS: 6.8S, 152.3E
			ipP	Z	59 09.0	$\frac{1}{2}$	-	H 20 21 59.3, h 62 km
			eL	E	21 11.2	24		
7	2	T	iP	Z	23 14. 03.0	1	-	Dilatation
			ipP	Z	14 23.5	$\frac{3}{4}$	-	USCGS: 10.2S, 160.7E
								H 23 07 21.5, h 117 km
8	3	T	eP	Z	11 48 29.0	$\frac{3}{4}$		USCGS: 6.8S, 129.3E
								H 11 40 42.5, h 72 km
9	3	T	eP	Z	19 34 17.5	1		USCGS: 6.4S, 130.4E
		FN	eP	Z	19 34 24.0	1		H 19 27 00.4, h 100 km
10	4	T	iP	Z	01 58 39.5	1	-	Dilatation
		FN	iP	Z	01 58 45.0	$\frac{3}{4}$	-	Dilatation
								USCGS: 5.5N, 122.5E
								H 01 50 18.0, h 633 km
11	4	M	eP	Z	13 32 10.0	1		
		FN	iP	Z	13 32 10.5	$\frac{3}{4}$	-	Dilatation
		T	iP	Z	13 32 13.5	1	-	Dilatation
								USCGS: 17.4S, 178.9W
								H 13 25 35.6, h 591 km
12	5	FN	eP	Z	05 47 34.5	$\frac{1}{2}$		USCGS: 20.1S, 174.0W
			epP	Z	47 47.5	$\frac{3}{4}$		H 05 40 00.6, h 25 km
13	5	T	eP	Z	14 20 13.0	1		USCGS: 51.6N, 176.3W
		FN	e	Z	14 20 27.0	$\frac{3}{4}$		H 14 06 25.9, h 37 km
			iSKS	E	30 47	5	-	
			eS	E	31 51	7		
			eSS	E	38 28	19		
			eSSS	E	43 18	20		
			eG	E	48.2	40		
			M	E	15 03.3	19		
14	5	T	iP	Z	15 22 29.5	$1\frac{1}{2}$	-	Dilatation
		FN	eP	Z	15 22 31.5	$1\frac{1}{2}$		USCGS: 45.7N, 149.3E
								H 15 09 37.9, h 19 km
15	5	T	iP	Z	16 01 11.5	$1\frac{1}{2}$	-	Dilatation
			ipP	Z	01 45.5	$\frac{3}{4}$	-	
			isP	Z	02 05.0	1	+	USCGS: 4.1S, 143.0E
			iPP	Z	02 44.0	1	+	H 15 53 56.0, h 108 km
			iPcP	Z	03 25.5	1	-	
			eScP	Z	06 59.0	2		
		M	iP	Z	16 01 13.0	$1\frac{1}{2}$	-	Dilatation
			ipP	Z	01 46.0	1	-	
			isP	Z	02 03.0	$1\frac{1}{4}$	+	
			i	Z	02 13.0	1	-	
			ePP	Z	02 46.0	$1\frac{1}{2}$	-	
			eScP	Z	07 02.0	3		

Continued on next page

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No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
15	Jan. 5 cont. from previous page	FN	iP	Z	16 01 17.5	1	-	Dilatation
			eP	E	01 19	1		
			i	Z	02 22.5	½	-	
			i	Z	04 03.0	½	-	H 15 54 02
			eS	E	07 06	13		Δ 39°.4, h 0.02
			eScP	Z	07 09.5	2		
			e	E	08 41			
			e	E	09 19			
			eL	E	11.3			
			M	E	18.9			
16	5	T	eP	Z	18 03 47.5	1		USCGS: 21.2S, 169.3E
			i	Z	03 56.6	1¼	-	H 17 57 56.6, h 123 km
			i	Z	04 12.0	1	-	
			e	Z	08 39.0	6		
		FN	eP	Z	18 03 48.0	1		
			eP	E	03 50			
			i	Z	03 55.5	¾	+	
			i	E	03 56	2	+	
			e	E	05 14	26		
			eS	E	08 16	7		
			i	E	08 31	11	-	
			i	E	08 40	11	-	
			e	E	09 12	14		
			eL	E	10.2	23		
			M	E	14.7	16		
17	5	T	eP	Z	18 20 33.0	½		USCGS: 21.0S, 169.1E
			i	Z	20 42.5	¾	+	H 18 14 43.0, h 124 km
			i	Z	20 52.0	1	-	
			e	Z	21 02.5	2		
			eL_r	Z	29.0	19		
		FN	eP	Z	18 20 34.0	¾		
			eP	E	20 35	5		
			i	Z	20 39.0	1	-	
			iS	E	25 21	8	+	
			eL	E	28.2	31		
			eL_r	Z	29.1	17		
			M_r	E	31.8	15		
18	6	M	eP	Z	00 03 15.0	1		USCGS: 32.4S, 178.6W
		T	eP	Z	00 03 15.0	1		H 23 57 29.6 (on 5th)
		FN	L	E	00 14.3	17		h 166 km
19	6	T	iP	Z	01 33 05.0	1	-	Dilatation
		M	iP	Z	01 33 05.0	1	-	Dilatation
								USCGS: 42.5N, 143.4E
								H 01 20 30.8, h 21 km
20	7	FN	eP	Z	18 29 01.0	¾		USCGS: 57.2S, 25.3W
			ipP	Z	29 17.0	½	+	H 18 16 51.2, h 94 km
		T	eP	Z	18 29 05.0	¾		
			epP	Z	29 21.0	¾		

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No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
21	Jan. 8	FN	eS	E	03 12 26	10		USCGS: 3.5N, 129.6E
			eSS	E	16 09	15		H 02 56 34.1, h 117 km
			eL	E	23.4	18		
22	8	FN	eP	Z	07 37 26.0	¾		
			eL	E	44.4	17		
23	8	FN	iP	Z	10 06 46.5	¾	+	Compression
		T	iP	Z	10 06 50.0	1	+	Compression
			iScP	Z	12 24.5	½	+	USCGS: 25.9, 179.6E
								H 10 01 06.6, h 538 km
24	8	FN	iP	Z	20 33 10.0	½	-	Dilatation
			iS	Z	35 29.0	½	+	
			eT	Z	45 28.5	½		
			Tmax	Z	46 06.0	½		
		T	eP	Z	20 33 24.0	¾		
			eS	Z	35 51.5	½		
25	9	FN	eL	E	08 11.4	19		USCGS: 28.2S, 176.8W
								H 07 54 25.0, h 25 km
26	9	FN	eP	Z	10 19 11.0	1		USCGS: 21.3S, 169.1E
			eL	E	27.2	23		H 10 13 17.7, h 82 km
27	10	FN	eP	Z	11 28 06.0	¾		
			iPP	Z	28 16.0	1	-	
			eT	Z	40 42.0	½		
			Tmax	Z	41 07.5			
28	10	T	eP	Z	14 35 30.0	1		USCGS: 49.9N, 156.2E
			iPcP	Z	35 33.0	1	-	H 14 22 18.2, h 29 km
		FN	eP	Z	14 35 33.0	¾		
			iPcP	Z	35 35.5	1	-	H 14 22 05
			iS	E	46 38	9	+	Δ 96°.6, h **0**.00 ca
			eSS	E	52 43	16		
			eG	E	15 01.7	41		
			M	E	03.7	30		
			eW_2	E	16 38.3	25		
29	11	FN	e	Z	08 02 34.0	¼		Local
30	11	FN	eP	Z	16 35 29.5	½		USCGS: 54.7S, 162.9E
			e	Z	36 09.5	½		H 16 31 50.6, h 27 km
		T	eP	Z	16 35 42.0	1		

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No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
31	Jan. 11	FN	eP	Z	21 40 05.5	½		USCGS: 52.3S, 160.3E
			iPP	Z	40 19.0	½	-	H 21 37 05.1, h 25 km
			e	Z	40 53.5	¾		
			iS	Z	42 21.0	1	+	
			eL	E	44.4	¼, 19		
			M	E	45.1	13		
			eT	Z	53 29.0	½		
			Tmax	Z	54 05.5	½		
		T	eP	Z	21 40 22.5	½		
			eS	Z	42 49.5	¾		
			eT	Z	53 57.5	½		
32	12	FN	eL	E	05 33.7	13		USCGS: 20.3S, 169.0E H 05 16 12.2, h 100 km
33	13	FN	eP	Z	02 17 01.5	½		
34	14	FN	eP	Z	00 37 59.5	½		USCGS: 52.9S, 160.8E
			e	Z	38 22.5	½	-	H 00 35 03, h 25 km
			eS	Z	40 16.5	1		
			eL	E	40.4	19		
			M	E	40.9	13		
			eT	Z	50 29.0	½		
			Tmax	Z	51 01.0	½		
35	14	FN	iP	Z	05 35 58.5	½	-	Dilatation USCGS: 5.4S, 152.9E H 05 32 42.5, h 81 km
36	15	FN	eL	E	01 08.3	27		USCGS: 53.6, 139.6E H 01 02 50.2, h 25 km
37	15	FN	iP	Z	10 16 40.5	¾	-	Dilatation
			i	Z	17 04.0	¾	-	
			iS	Z	18 57.0	1	+	
			eL	E	19.1	16		
			M	E	19.6	13		
			eT	Z	29 03.0	½		
			Tmax	Z	29 39.0	½		
38	15	FN	iP	Z	16 50 37.5	¾	+	Compression
			epP	Z	51 03.0	1		USCGS: 20.4S, 169.5E
			eScP	Z	57 12.5	1½		H 16 44 44.8, h 182 km
39	15	FN	eP	Z	20 05 23.0	¾		
40	15	FN	eP	Z	20 42 24.5	½		USCGS: 5.2S, 110.0E H 20 34 14.3, h 565 km

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No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
41	Jan. 16	FN	eP	Z	07 32 13.5	$\frac{3}{4}$		H 07 20 14
			i	Z	32 37.0	$\frac{3}{4}$	-	Δ 81°.3, h 0.02
			isP	Z	33 07.5	1	-	
			i	Z	33 18.5	$\frac{3}{4}$	-	USCGS: 36.0N, 141.1E
			eS	E	42 09	(26)		H 07 20 18.6, h 131 km
			i(ScS)	E	42 43	8	-	
			eSS	E	47 24	18		
			eSSS	E	50 43	19		
			eG	E	54.1	51		
			M	E	58.6	22		
42	16	FN	eP	Z	11 31 43.0	$\frac{3}{4}$		USCGS: 35.7N, 140.6E
								H 11 19 46.5, h 157 km
43	16	FN	iP	Z	12 24 30.0	$\frac{3}{4}$	-	Dilatation
			iPcP	Z	24 38.0	$\frac{3}{4}$	+	
			e(S)	E	34 34			USCGS: 36.2N, 141.7E
			eG	E	46.4	49		H 12 12 34.4, h 105 km
			M	E	50.6	21		
44	16	FN	eP	Z	14 15 59.5	1		USCGS: 36.3N, 141.2E
			e(PcP)	Z	16 10.0	$\frac{3}{4}$		H 14 04 05.3, h 127 km
45	16	FN	eP	Z	15 53 15.5	$\frac{3}{4}$		USCGS: 36.4N, 140.6E
			i	Z	53 30.5	$\frac{3}{4}$	-	H 15 41 23.3, h 147 km
			i	Z	53 38.0	$\frac{3}{4}$	+	
			eL	E	16 18.4			
46	17	FN	eP	Z	01 40 35.5	$\frac{1}{2}$		
			i	Z	40 58.0	$\frac{3}{4}$	+	
			eS	Z	42 53.5	1		
			eL	E	43.0	16		
			M	E	43.6	12		
			eT	Z	53 04.0	$\frac{1}{2}$		
			Tmax	Z	53 36.5	$\frac{1}{2}$		
47	17	FN	eP	Z	17 57 40.5	$\frac{3}{4}$		
			iPP	Z	57 51.5	$\frac{1}{2}$	-	
			i	Z	58 07.5	$\frac{3}{4}$	-	
			iS	Z	59 59.0	1	-	
			eL	E	18 00.0	17		
			M	E	00.8	15		
			eT	Z	10 03.0	$\frac{3}{4}$		
			Tmax	Z	10 36.0	$\frac{3}{4}$		
		M	eP	Z	17 57 42.0	$\frac{1}{2}$		
48	17	FN	eP	Z	23 11 20.5	1		H 23 05 11
			ipP	Z	11 30.5	$\frac{3}{4}$	-	Δ 30°.3, h 0.00
			eS	E	16 17	13		
			eSSS	E	17 04			USCGS: 21.4S, 169.3E
			eL	E	19.5	17		H 23 05 32.5, h 84 km
			M	E	21.6	17		
		M	eP	Z	23 11 19.0	1		
			epP	Z	11 29.0	1		
			iPP	Z	12 10.5	2	+	

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No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT) h m s	Per. s	Amp.	Remarks
49	Jan. 18	FN	i	Z	01 56 15.5	½	+	
50	19	FN	eL	E	04 37.9			USCGS: 14.4S, 166.7E H 04 21 16.0, h 26 km
51	19	M	e(P)	Z	06 00 26.0	1		USCGS: 21.5S, 170.3E H 05 54 25.5, h 100 km
52	20	FN	eL	E	18 03.0	29		USCGS: 56.4N, 152.3E H 17 09 15.7, h 46 km
53	20	FN	eL	E	18 54.6	18		
			M	E	56.2	15		
54	21	M	eP	Z	00 24 26.0	1		
55	21	FN	eL	E	15 13.7	20		
			M	E	14.2	15		
56	22	FN	iP	E	03 31 04	6	+	USCGS: 11.9S, 166.2E
			iPP	E	32 26	7	+	H 03 24 04.5, h 25 km
			i	E	33 59	3	-	
			iS	E	36 38	13	+	
			iSS	E	38 52	13	+	
			iSSS	E	39 11	22	-	
			iL	E	40.7	19	+	
			M	E	50.1	15		
			eW_2	E	06 17.1	19		
57	22	M	eP	Z	14 45 24.0	1		Local
			e	Z	45 30.0	¾		
			eS	Z	46 32.5	¾		
58	22	M	eP	Z	16 16 16.5	1		USCGS: 28.5S, 174.8W
		FN	eL	E	16 25.4	16		H 16 09 37.3, h 68 km
59	22	FN	eL	E	19 22.4			USCGS: 12.3S, 166.1E H 19 04 54.1, h 35 km
60	24	M	eP	Z	07 31 14.5			Masked by interfer- ence.
			e(pP)	Z	31 44.0			
			esP	Z	31 59.0			USCGS: 15.6S, 167.6E
		T	iP	Z	31 16.5		+	H 07 25 03.5, h 198 km
			epP	Z	31 44.0			P Compression
61	25	T	eP	Z	01 03 22.0	1		USCGS: 4.9S, 102.7E
		M	eP	Z	01 03 25.5	1		H 00 54 09.2, h 135 km
62	26	M	iP	Z	07 42 55.0	1	-	Dilatation
		FN	eL	E	07 46.7	19		
			M	E	48.9	10		
63	26	FN	eL	E	13 27.0	16		USCGS: 21.3S, 169.5E H 13 12 22.6, h 77 km

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
64	Jan. 26	M	eP	Z	16 19 09.0	¾		USCGS: 21.4S, 169.5E
			i	Z	19 11.5	1	-	H 16 13 25.1, h 119 km
			i(pP)	Z	19 33.5	1	-	
		FN	iP	E	16 19 15		+	
			iPP	E	20 12	(5)	+	
			e	E	21 02	9		
			eS	E	23 48	9		
			iSS	E	25 15	10		
			eL	E	26.2	19		
			M	E	30.1	14		
65	26	M	eP	Z	18 54 52.0	¾		USCGS: 20.7S, 169.5E
		FN	eL	E	19 01.9	27		H 18 48 56.9, h 106 km
			M	E	04.7	19		
66	27	M	iP	Z	00 59 21.0	1	-	Dilatation
			iPcP	Z	01 01 45.0	1	-	USCGS: 6.4S, 154.7E
								H 00 52 14.6, h 23 km
67	27	M	eP	Z	08 03 54.5	½		
			i	Z	04 01.5	¾	-	
68	27	M	eP	Z	14 52 43.5	1		USCGS: 21.4S, 169.6E
		FN	eL	E	15 00.9	13		H 14 46 51.2, h 64 km
69	27	FN	eL	E	15 19.8	21		USCGS: 21.2S, 169.4E
								H 15 05 53.5, h 68 km
70	28	FN	eL	E	04 19.3			
71	28	M	iP	Z	05 18 25.0	1	-	Dilatation
		T	iP	Z	05 18 29.0	1	-	Dilatation
72	28	FN	eL	E	14.9			USCGS: 13.8S, 165.8E
								H 14 34 56.1, h 128 km
73	28	M	eP	Z	19 48 59.0	1		USCGS: 21.3S, 169.5E
			i	Z	49 03.5	1	+	H 19 43 01.4, h 50 km
		FN	iS	E	19 53 39	9		
			i	E	53 48	(12)		
			e	E	54 10	16		
			iSSS	E	55 30			
			eL	E	55.7	24		
			M	E	20 01.7	13		

Seismograms read by
Lesley Read

International Seismological Centre

JOINT DIRECTORS

Professor S. Warren Carey
Professor Gordon H. Newstead

Box 252c, G.P.O.,
Hobart, Tasmania.

FEB 1962

International Seismological Centre

TASMANIA UNIVERSITY RADIO-TELEMETERED SEISMIC NET

SEP 21 1961

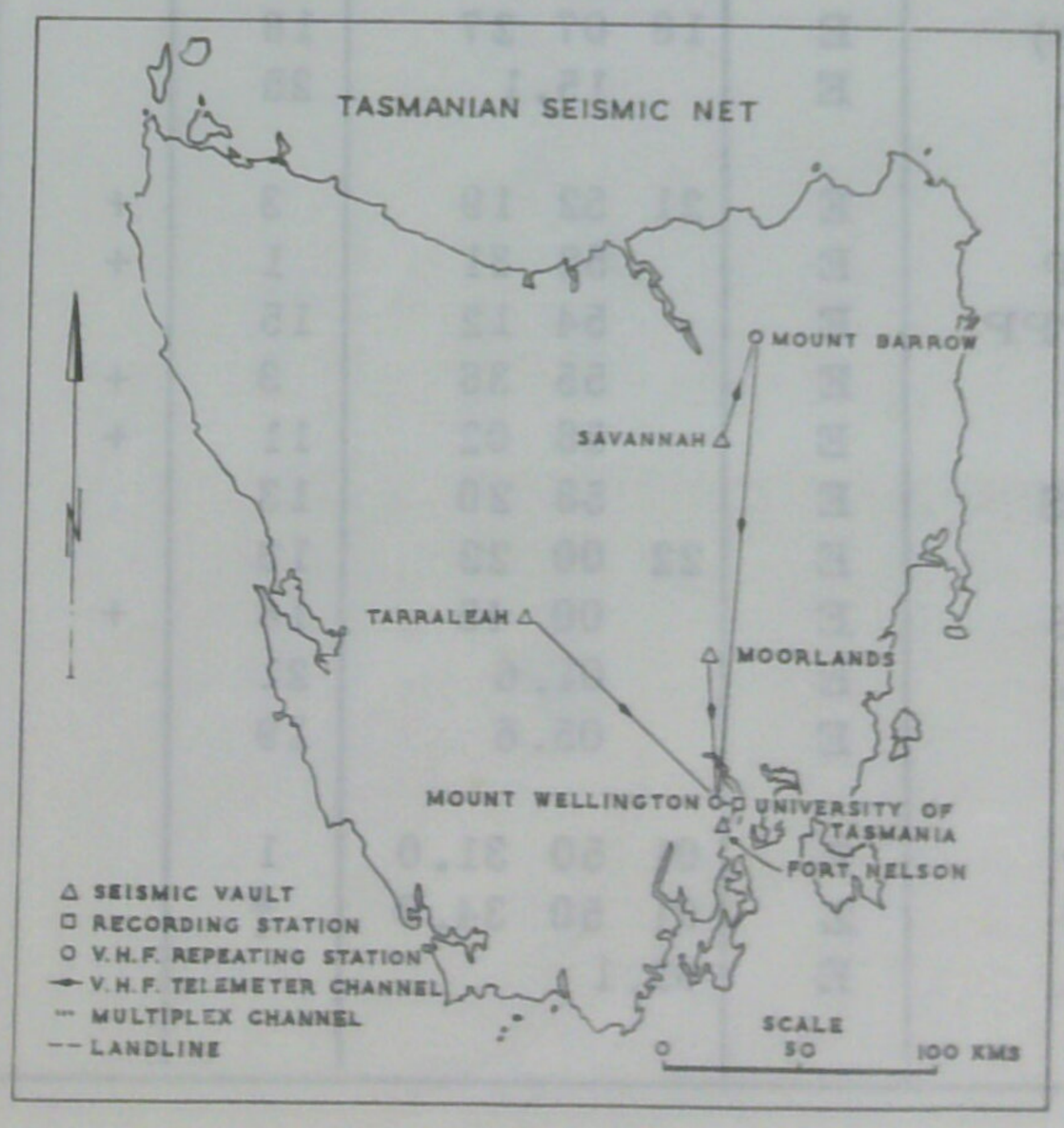
Station Co-ordinates			Altitudes (metres)	Foundations
Fort Nelson (FN)	42°55'35.39"S	147°21'13.02"E	184.1	Dolerite
Tarraleah (T)	42°18'16.34"S	146°27'03.51"E	579.1	Basalt
Moorlands (M)	42°26'33.31"S	147°11'29.26"E	324.6	Top contact of dolerite sill
Savannah (S)	41°43'17.59"S	147°11'22.41"E	179.8	Dolerite

Inter-station distances (metres)		Bearings	Back Bearings
FN – T	101285	305°42'15"	133°18'55"
FN – M	55375	346°03'28"	166°10'04"
FN – S	134526	354°10'30"	174°17'08"
T – M	62891	104°21'43"	283°51'46"
T – S	89086	43°27'24"	223°07'44"
M – S	80089	359°53'12"	179°53'17"

TIME

All stations are radio-telemetered to record on a single multipen recorder (90 mm. per min., response to 50 cycles per sec.) timed by a Rohdë & Schwartz quartz crystal clock. The system is also recorded in parallel on multi-channel magnetic tape.

Seismometer installations not yet permanent, current installation is given overleaf.



Bulletin overleaf.

International Seismological Centre

PROVISIONAL SEISMOLOGICAL BULLETIN

February, 1961

Instruments:

FN Sprengnether (Series H) EW, pendulum 15.3 sec., galvanometer 6¾ sec.
FN Willmore short period vertical (operating intermittently)
M Willmore short period vertical " "
T Willmore short period vertical " "

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
74	Feb. 4	T	iP	Z	09 03 54.0	1	-	Dilatation
		M	iP	Z	09 03 57.0	1	-	Dilatation
								USCGS: 24.7N, 95.3E
								H 08 51 48.9, h 162 km
75	4	FN	eSSS	E	15 46 17			USCGS: 17.0S, 176.8E
			eL	E	49.7	18		H 15 29 11.7, h 57 km
76	4	T	eP	Z	19 20 25.0	1½		USCGS: 24.0N, 122.7E
		M	e	Z	19 20 36.0	1		H 19 09 12.9, h 14 km
		FN	eL	E	19 46.3	17		
77	5	M	iP	Z	07 46 30.0	1	-	Dilatation
		T	iP	Z	07 46 33.5	1	-	Dilatation
								USCGS: 17.7S, 178.4W
								H 07 39 57.9, h 590 km
78	5	FN	e(s)	E	18 07 27	16		USCGS: 38.4S, 78.2E
			eL	E	15.1	25		H 17 50 51.1, h 25 km
79	6	FN	iP	E	21 52 19	3	+	H 21 45 11
			ipP	E	52 31	1	+	△ 37°.0, h 0.00 ca
			ePPP	E	54 12	15		
			i	E	55 36	3	+	USCGS: 6.8S, 155.3E
			iS	E	58 02	11	+	H 21 45 13.5, h 59 km
			esS	E	58 20	13		
			e	E	22 00 22	13		
			iSS	E	00 45	18	+	
			eL	E	01.6	21		
			M	E	05.6	19		
80	7	M	eP	Z	01 50 31.0	1		USCGS: 11.6S, 166.0E
		T	eP	Z	01 50 34.0	¾		H 01 43 42.6. h 55 km
		FN	eL	E	02.1			

International Seismological Centre

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
81	Feb. 7	T	eP	Z	06 52 56.0	$\frac{1}{4}$		Local
			iS	Z	52 59.5	$\frac{1}{4}$	-	
82	8	M	iP	Z	02 42 58.0	$1\frac{1}{4}$	-	Dilatation
			iPcP	Z	45 44.5	1	-	
		T	iP	Z	02 43 00.0	1	-	Dilatation
			ePcP	Z	45 45.0	$\frac{3}{4}$		
		FN	eP	Z	02 43 00.0	$\frac{3}{4}$		USCGS: 15.3S, 167.5E
			ePcP	Z	45 45.5	$\frac{3}{4}$		H 02 36 40.5, h 162 km
83	8	FN	iP	Z	17 57 09.0	$\frac{3}{4}$	+	Compression
		T	iP	Z	17 57 13.0	1	+	Compression
								USCGS: 20.4S, 178.1W
								H 17 50 45.2, h 543 km
84	9	FN	iP	Z	02 14 39.0	1	+	Compression
			iP	E	14 40	1	-	
			iPPP	E	16 06		+	
			iPcP	Z	17 30.0	1	-	
			i	Z	17 33.5	$\frac{3}{4}$	+	USCGS: 28.2S, 177.4W
			e	E	20 20			H 02 08 15.9, h 37 km
			eSSS	E	22 09	21		
			eL	E	23.1	31		
			M	E	26.9	15		
		M	eP	Z	02 14 39.5	1		
			iPcP	Z	17 31.0	1	-	
			i	Z	17 33.5	1	+	
		T	iP	Z	02 14 44.0	1	+	Compression
			iPcP	Z	17 32.0	1	-	
			i	Z	17 35.0	1	+	
85	9	FN	eL	E	20 45.4	19		USCGS: 9.9S, 111.3E
			M	E	48.1	12		H 20 21 20.1, h 73 km
86	11	FN	iP	Z	16 53 23.0	$\frac{3}{4}$	-	Dilatation
			e	Z	53 38.0	$\frac{3}{4}$		USCGS:19.8S, 176.2W
			i	Z	53 52.0	$\frac{3}{4}$	+	H 16 46 24.6, h 261 km
87	11	FN	iP	Z	21 07 29.0	1	-	Dilatation
			iP	E	07 31	$1\frac{1}{4}$	-	
			e(PPP)	Z	08 58.5	1		
			iPcP	Z	10 20.5	1	+	USCGS: 28.2S, 177.5W
			iPcP	E	10 21	1	-	H 21 01 06.4, h 41 km
			e	E	12 27	11		
			eSSS	E	14 45	(15)		
			eL	E	16.4	26		
			M	E	17.6	21		
		M	iP	Z	21 07 30.0	1	-	Dilatation
			ePP	Z	08 41.5	$1\frac{1}{4}$		
			ePPP	Z	08 57.0	$1\frac{1}{2}$		
			iPcP	Z	10 20.5	$1\frac{1}{4}$	+	

International Seismological Centre

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
88	Feb. 12	M	eP	Z	12 16 52.0	¾		USCGS: 15.0S, 175.2W
		FN	eP	Z	12 16 52.5	1		H 12 09 22.0, h 28 km
89	12	M	iP	Z	13 03 33.5	1	+	Compression
			i	Z	03 43.5	1	-	
			i	Z	04 26.0	1	+	USCGS: 13.1S, 171.8E
		FN	iP	E	13 03 35	1	+	H 12 57 15.3, h 598 km
90	12	T	eP	Z	22 06 24.5	1		
		M	eP	Z	22 06 26.0	2		
		FN	eP	Z	22 06 28.0	1		H 22 53 49
			iPcP	Z	06 32.5	¾	+	△ 86°.2, h 0.00
			esP	Z	06 41.5	¾		
			eSKS	E	16 52	10		
			iS	E	16 59	7	+	USCGS: 43.7N, 147.6E
			e	E	17 07	37		H 21 53 43.5, h 451 cm
			ePS	E	18 10			
			ePPS	E	18 34	15		
			eSS	E	22 30	20		
			eSSS	E	26 02	23		
			eL	E	29.0	28		
			M	E	32.7	27		
91	12	T	eP	Z	23 39 16.0	1		USCGS: 44.0N, 147.7E
		M	eP	Z	23 39 16.5	1		H 23 26 34.5, h 23 km
		FN	eP	Z	23 39 19.0	1½		
			eL	E	00 02.6	37		
92	13	M	iP	Z	13 53 02.5	¾	-	Dilatation
		FN	iP	Z	13 53 05.5	1	-	Dilatation
								USCGS: 6.9S, 155.7E
								H 13 45 57.7, h 25 km
93	13	T	iP	Z	16 24 55.0	1	+	Compression
			iPcP	Z	26 54.0	¾	-	USCGS: 5.1S, 128.7E
		M	eP	Z	16 24 58.0	1		H 16 17 20.1, h 66 km
		FN	iP	Z	16 25 01.0	1	+	Compression
			ePcP	Z	26 56.5	½		
94	13	T	iP	Z	16 40 03.0	1	-	Dilatation
			epP	Z	40 15.0	1½		
		M	iP	Z	16 40 04.0	1	-	Dilatation
			epP	Z	40 16.0	1½		USCGS: 43.7N, 149.6E
		FN	eP	Z	16 40 05.5	¾		H 16 27 20.9, h 25 km
95	15	M	iP	Z	10 57 55.5	1	-	Dilatation
			ipP	Z	58 05.5	1	-	USCGS: 43.7N, 147.4E
								H 10 45 15.9, h 69 km
96	16	FN	eL	E	13 45.8	15		
97	16	FN	eL	E	23 58.9	15		
			M	E	00 01.3	10		

International Seismological Centre

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
98	Feb. 18	M	iP	Z	12 11 28.0	1	-	Dilatation
			esP	Z	11 46.5	1¼		
		FN	iP	Z	12 11 29.0	1	-	Dilatation
			e(S)	E	16 25	12		
			eL	E	19.0	24		USCGS: 22.6S, 171.3E
			M	E	21.2	17		H 12 05 36.3, h 38 km
99	20	M	eP	Z	14 24 39.5	1		USCGS: 5.0S, 153.4E
			iPcP	Z	26 54.5	1	-	H 14 17 27.3, h 107 km
100	20	M	iP	Z	08 39 46.5	1	+	Compression
101	21	M	eP	Z	01 33 43.5	¾		
			e	Z	33 49.0	¾		
			i	Z	33 53.0	1		
102	21	M	iP	Z	19 16 53.0	1	+	Compression
			i	Z	16 57.5	1	+	USCGS: 48.8S, 106.2E
			i	Z	17 02.5	1	+	H 19 10 56.8, h 52 km
103	22	M	iP	Z	21 59 55.0	1	-	Dilatation
			ipP	Z	22 00 10.5	1½	+	
			i	Z	00 31.5	1	-	
			iPcP	Z	02 46.0	1	-	USCGS: 28.4S, 177.2W
			i	Z	02 50.0	¾	-	H 21 53 34.5, h 78 km
		FN	eP	E	21 59 58	1		
			e	E	22 05 33	14		
			eL	E	08.3	27		
			M	E	12.3	16		
104	23	M	iP	Z	04 28 34.0	1¼	-	Dilatation USCGS: 38.2N, 142.7E H 04 16 25.0, h 119 km
105	25	T	iP	Z	15 09 56.0	1	+	Compression
		FN	eL	E	15 22.1	25		USCGS: 15.4S, 175.8W H 15 02 04.8, h 62 km
106	26	M	eP	Z	06 00 36.0	1¼		USCGS: 32.7S, 111.2W
		FN	eP	Z	06 00 37.0	1		H 05 48 46.3, h 29 km
			eL	E	20.3	24		
			M	E	23.0	13		
		T	eP	Z	06 00 39.5	1		
107	26	T	iP	Z	18 22 31.5	1½	+	Compression
			iPcP	Z	22 42.0	1¼	-	
		M	iP	Z	18 22 33.0	1½	+	Compression
			iPcP	Z	22 43.5	1	-	
		FN	iP	Z	18 22 36.0	1	+	Compression
			eP	E	22 39	1		
			iPcP	Z	22 46.5	1	-	H 18 10 49, △ 76°.3
			i(sP)	Z	22 59.0	¾	-	Depth uncertain
			e	E	28 16	12		
			iS	E	32 17	9	+	USCGS: 31.4N, 131.2E
			i(sS)	E	32 33	12	-	H 18 10 48.7, h 54 km
			eSS	E	37 25	26		
			eL	E	42.1	24		
			M	E	54.2	20		

International Seismological Centre

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
108	Feb. 26	T	iP	Z	21 11 29.5	$\frac{3}{4}$	+	Compression
			i	Z	11 35.0	1	+	
		FN	iP	Z	21 11 39.5	$\frac{3}{4}$	+	Compression
								USCGS: 16.0N, 121.6E
								H 21 01 04.8, h 32 km
109	27	FN	eP	Z	16 54 51.0	$\frac{1}{2}$		
			i	Z	55 06.0	$\frac{1}{2}$	-	
			eL	E	57.0	20		
			M	E	57.8	13		
			eT	Z	17 07 21.0	$\frac{1}{2}$		
			Tmax	Z	07 59.5	$\frac{1}{2}$		
110	27	FN	eL	E	17 09.8	(11)		USCGS: 4.2S, 135.3E
								H 16 48 24.9, h 100 km
111	27	FN	eP	Z	17 44 23.0	$\frac{1}{2}$		
			eS	Z	46 39.5	$\frac{1}{2}$		
			eL	E	46.7	17		
			M	E	47.3	13		
			eT	Z	56 29.5	$\frac{1}{2}$		
			Tmax	Z	57 11.0	$\frac{1}{2}$		
		M	eT	Z	17 57 01.5	$(\frac{3}{4})$		
		T	eT	Z	17 57 20.0	$\frac{3}{4}$		
			Tmax	Z	57 43.5	$\frac{1}{2}$		
112	28	FN	iP	Z	07 35 41.0	$\frac{1}{2}$	-	Dilatation
			eS	Z	37 57.0	1		
			eL	E	37.8	20		
			M	E	38.4	14		
			eT	Z	47 55.5	$\frac{1}{2}$		
			Tmax	Z	48 40.0	$\frac{1}{2}$		
		T	e	Z	07 35 56.5			
			e	Z	36 19.5	$\frac{1}{2}$		
			eT	Z	48 30.5	$\frac{1}{2}$		
			Tmax	Z	48 54.0	$\frac{1}{2}$		
		M	(e)	Z	07 36 55.0	$\frac{3}{4}$		
113	28	FN	eL	E	23 21.1	20		

Seismograms read by
Lesley Read

NOV 14 1961

MAR 1961

JOINT DIRECTORS:
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Professor Gordon H. Newstead

Box 252c, G.P.O.,
Hobart, Tasmania.

International Seismological Centre

TASMANIA UNIVERSITY RADIO-TELEMETERED SEISMIC NET

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TIME

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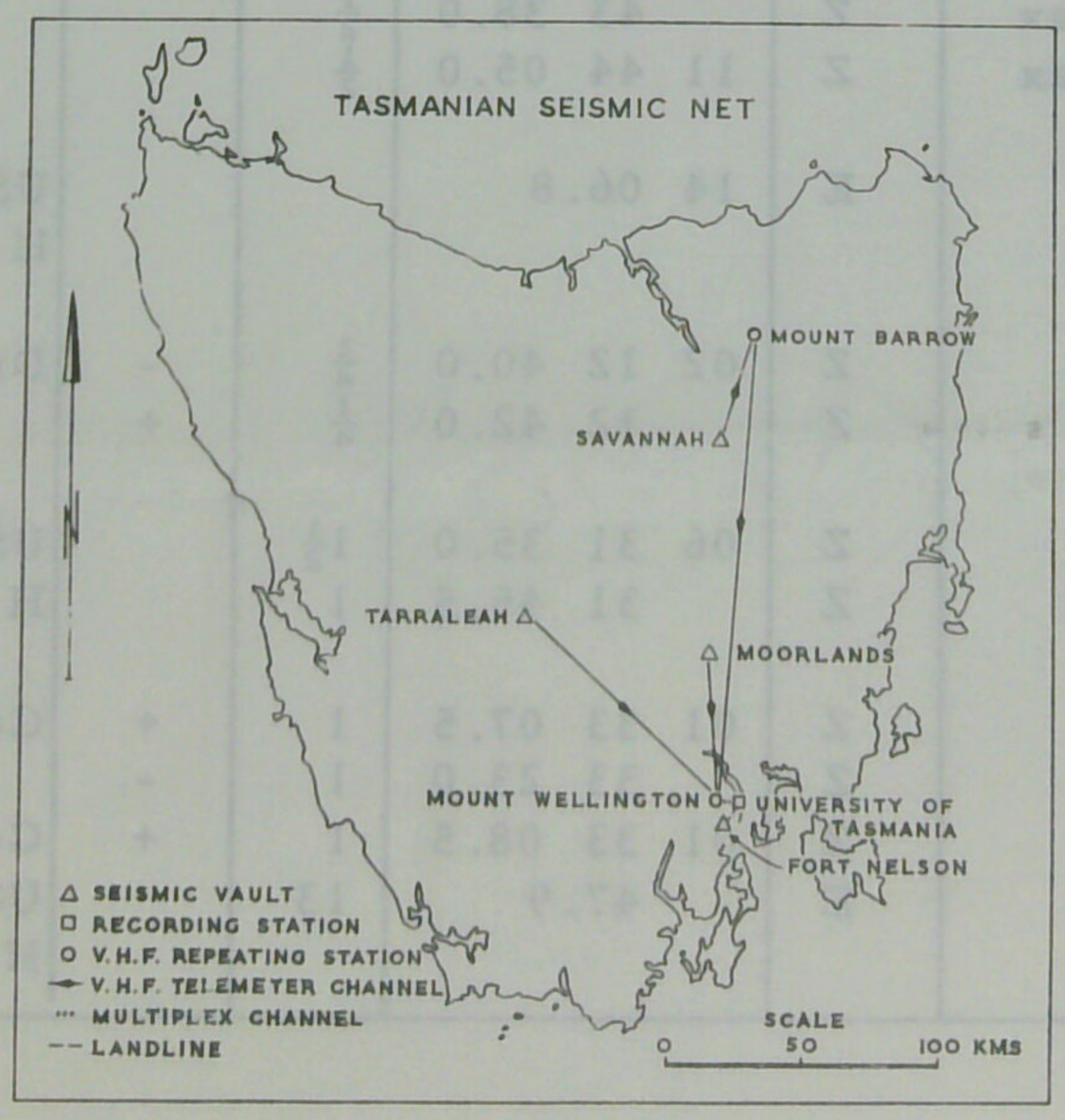

Bulletin overleaf.

PROVISIONAL SEISMOLOGICAL BULLETIN

March, 1961

International Seismological Centre

Instruments:

FN Sprengnether (Series H) EW, pendulum 15.3 sec., galvanometer $6\frac{3}{4}$ sec.
FN Newstead-Watt horizontal NS (operating intermittently)
FN Willmore short period vertical " "
M Willmore short period vertical " "
T Willmore short period vertical " "

.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
4	Mar. 1	T	iP	Z	00 32 58.5	$\frac{3}{4}$	-	Dilatation
		FN	iP	Z	00 33 02.5	$\frac{3}{4}$	-	Dilatation
								USCGS: 13.2N, 143.2E
								H 00 23 42.5, h 221 km
5	1	FN	iP	Z	09 31 59.5	$\frac{3}{4}$	-	Dilatation
			eS	Z	34 16.0	$\frac{1}{2}$		H 09 29 05
			eL	E	34.3	17		Δ 12°.3
			M	E	35.0	13		
			eT	Z	44 14.5	$\frac{1}{2}$		
			Tmax	Z	44 52.5	$\frac{1}{2}$		
		M	Tmax	Z	09 45 09.0	$\frac{3}{4}$		
		T	Tmax	Z	09 45 29.5	$\frac{1}{2}$		
6	1	FN	eP	Z	11 30 36.5	$\frac{1}{2}$		H 11 27 56
			eS	Z	32 42.0	$\frac{1}{2}$		Δ 11°.2
			eL	E	33.2	14		
			eT	Z	43 16.5	$\frac{1}{2}$		
			Tmax	Z	43 38.0	$\frac{1}{2}$		
		T	Tmax	Z	11 44 05.0	$\frac{1}{2}$		
7	1	FN	eL	E	14 06.8			USCGS: 7.5S, 130.0E
								H 13 47 37.2, h 25 km
8	3	FN	iP	Z	02 12 40.0	$\frac{1}{4}$	-	Dilatation. Local
			iS	Z	12 42.0	$\frac{1}{4}$	+	
9	3	T	eP	Z	06 31 35.0	$1\frac{1}{2}$		USCGS: 22.9S, 171.4E
			epP	Z	31 45.5	1		H 06 25 37.9, h 27 km
0	5	T	iP	Z	01 33 07.5	1	+	Compression
			i	Z	33 23.0	1	-	
		FN	iP	Z	01 33 08.5	1	+	Compression
			eL	E	47.9	13		USCGS: 10.7S, 161.6E
								H 01 26 26.1, h 99 km

o.	Date 1961	Stn.	Phase	Cpt.	Time (GMT) h m s	Per. s	Amp	Remarks
21	Mar. 5	FN	iP	Z	10 46 19.5	¾	+	Compression
			e	Z	46 29.0	¾		USCGS: 17.8S, 179.0W
			i	Z	46 36.0	¾	+	H 10 39 49.9, h 622 km
		T	iP	Z	10 46 22.5	1	+	Compression
22	5	FN	eL	E	20 02.7			USCGS: 3.6S, 137.0E H 19 42 08.0, h 25 km
23	7	T	iP	Z	02 58 46.5	¾	+	Compression
		FN	iP	Z	02 58 51.0	½	+	Compression USCGS: 28.8N, 139.1E H 02 47 25.8, h 25 km
24	7	FN	L	E	10 26.6	28		Power failure; 1012 -
			M	E	31.7	16		1028 (approx.)
			F	E	14.0			
		T	L	Z	10 27.3	18		USCGS: 28.2S, 175.7W
			M	Z	33.3	16		H 10 10 38.9, h 43 km
		M	L	Z	10 27.3	20		
			M	Z	33.3	15		
25	7	FN	eL	E	18 29.7			
26	7	T	iP	Z	19 17 45.0	1	-	Dilatation
		FN	iS	E	19 25 10	15	-	
			e	E	26 09	11		USCGS: 38.2S, 78.1E
			eSSS	E	30 41	11		H 19 08 36.1, h 30 km
			eL	E	32.7	23		
			M	E	34.2	15		
			e	E	36 36	7		
27	7	T	iP	Z	23 19 13.5	¾	-	Dilatation
			epP	Z	19 37.0	1		
			i	Z	19 58.0	½	+	USCGS: 4.7S, 153.2E
			iPcP	Z	21 29.5	¾	+	H 23 11 59.6, h 90 km
			i	Z	21 46.5	1	-	
			e	Z	25 15.0	1		
		FN	eL	E	23 31.8	24		
28	8	T	iP	Z	03 34 22.5	1½	+	Compression USCGS: 4.0S, 141.8E H 03 27 16.2, h 217 km
29	10	FN	iP	N	03 03 45.5	½	+	H 03 00 54
			eS	N	05 59.0	¼		△ 12°.0
			eL	E	06.6	17		
			M	E	06.7	14		USCGS: 51.9S, 161.6E
			eT	N	15 54.0	¼		H 03 00 43.3, h 25 km
			Tmax	N	16 40.5	½		

International Seismological Centre

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
130	Mar. 10	FN	eP	Z	09 20 28.5	½		H 09 17 35
			eP	N	20 29.0	¼		△ 12°.2
			ePP	Z	20 39.0	¾		
			ePP	Z	20 40.0	¼		
			eS	Z	22 46.5	1		
			eT	Z	32 45.5	½		
			eT	N	32 52.0	¼		
			Tmax	N	33 21.5	¼		
			Tmax	Z	33 27.5	½		
131	11	T	iP	Z	01 44 40.0	1	+	Compression
			i	Z	44 49.0	1	-	
			isP	Z	44 55.0	¾	-	USCGS; 48.7N, 154.6E
		FN	eP	Z	01 44 42.5	1		H 01 31 34.4, h 25 km
			e	Z	44 54.5	¾		
			eL	E	02.3			
132	12	FN	iP	Z	00 33 29.0	1	-	Dilatation
			eP	N	33 30.0	½	-	
			i	Z	33 31.5	½	-	
133	12	T	iP	Z	04 16 15.5	¾	+	Compression
		FN	eP	Z	04 16 19.5	¾		USCGS: 5.3S, 155.4E
								H 04 09 03.3, h 64 km
134	12	FN	eP	Z	23 28 10.0	¾		USCGS: 28.4S, 176.0W
			i	Z	28 17.5	1	+	H 23 21 42.5, h 113 km
			ePcP	Z	30 54.5	1		
			eL	E	37.5	25		
			M	E	42.6	15		
		T	e	Z	23 28 17.0	1		
			iPcP	Z	30 55.0	1	-	
135	13	FN	eL	E	05 00.0	14		USCGS: 5.2S, 135.4E
								H 04 37 13.4, h 229 km
136	13	T	iP	Z	04 58 25.0	¾	+	Compression
			i	Z	58 29.5	1	-	USCGS: 5.2S, 153.3E
								H 04 51 13.9, h 25 km
137	13	FN	ePKS	E	08 26 19	27		USCGS: 19.2N, 107.3E
			e	E	09 06 23	15		H 08 03 43.9, h 49 km
138	13	FN	eL	E	21 35.6	20		USCGS: 16.9S, 178.1W
								H 21 16 13.1, h 600 km
139	14	FN	eL	E	01 32.6	19		USCGS: 16.9S, 176.5W
								H 01 11 55.4, h 60 km

International Seismological Centre

o.	Date 1961	Stn.	Phase	Cpt.	Time (GMT) h m s	Per. s	Amp.	Remarks
40	Mar. 14	T	eP	Z	04 54 25.0	1/3		Local
			iS	Z	54 43.5	1/3	-	
		M	eS	Z	04 55 07.0	$\frac{3}{4}$		
		FN	eP	Z	04 54 41.0	$\frac{1}{4}$		
			iS	N	55 10.5	$\frac{1}{4}$	-	
41	15	T	iP	Z	10 22 22.0	1	+	Compression
			isP	Z	22 36.5	$1\frac{1}{4}$	+	
		M	iP	Z	10 22 22.5	1	+	Compression
			isP	Z	22 37.0	$1\frac{1}{4}$	+	
		FN	iS	E	10 28 35	10	+	USCGS: 3.3S, 150.7E
			eSS	E	31 34	16		H 10 14 55.5, h 21 km
			eL	E	33.1	27		
			M	E	36.1	22		
42	15	T	iP	Z	13 08 14.5	$\frac{3}{4}$	-	Dilatation
			ipP	Z	08 33.0	$\frac{3}{4}$	-	
			i	Z	08 49.0	1	-	USCGS: 4.4S, 152.5E
			i	Z	09 20.0	1	-	H 13 01 02.2, h 99 km
			ePP	Z	09 42.0	1		
			ePcP	Z	10 32.5	1		
		M	iP	Z	13 08 15.5	$\frac{3}{4}$	-	Dilatation
			i	Z	08 50.5	1	-	
			i	Z	09 21.0	1	-	
			ePcP	Z	10 32.0	1		
		FN	eP	Z	13 08 19.5	$\frac{3}{4}$		
43	16	M	iP	Z	04 36 25.5	1	+	Compression
			iScP	Z	41 57.5	1	-	
		FN	iP	Z	04 36 25.5	$\frac{3}{4}$	+	Compression
			eP	N	36 26.0	$\frac{1}{2}$		
		T	iP	Z	04 36 30.0	$\frac{3}{4}$	+	Compression
			eScP	Z	41 59.0	$\frac{3}{4}$		USCGS: 24.9S, 179.9E
								H 04 30 39.9, h 536 km
44	16	M	eP	Z	08 00 24.5	1		USCGS: 19.0S, 172.7W
			epP	Z	00 35.5	1		H 07 52.39.6, h 25 km
		FN	eP	Z	08 00 26.0	$\frac{1}{2}$		
		T	eP	Z	08 00 29.0	1		
			epP	Z	00 40.0	1		
45	16	T	iP	Z	11 27 02.0	1	-	Dilatation
			ePP	Z	28 33.0	2		
		M	iP	Z	11 27 05.0	1	-	Dilatation
		FN	eP	Z	11 27 09.0	1		USCGS: 6.4S, 130.7E
			eL	E	41.6	15		H 11 19 43.5, h 77 km
46	16	T	iP	Z	13 53 08.0	2	+	Compression
			ipP	Z	53 18.0	1	+	
			isP	Z	53 22.0	1	-	
			i(PP)	Z	54 56.0	1	-	
		M	iP	Z	13 53 12.0	2	+	Compression
			isP	Z	53 26.0	$1\frac{1}{4}$	-	
			i	Z	53 31.5	1	(-)	USCGS: 8.2S, 122.0E
		FN	(e)	N	13 53 15.0	$1\frac{1}{2}$		H 13 45 35.6, h 74 km
			eP	Z	53 16.0	2		

continued over.

International Seismological Centre

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o.	Date 1961	Stn.	Phase	Cpt.	Time (GMT) h m s	Per. s	Amp.	Remarks
6.	Mar. 16 cont.	FN	eP	E	13 53 19	3		
			i	E	53 35	6	-	
			i	E	55 11	3	-	
			iPcP	E	55 17	2	+	
			i	E	56 23	5	+	
			e(c)	E	59 35	30		
			eSS	E	14 02 28	(16)		
			iL	E	03.8	7,42	+	
			M	E	08.4	23		
7	16	T	iP	Z	18 28 49.0	1	-	Dilatation
		M	iP	Z	28 52.5	1	-	Dilatation
			ePP	Z	30 32.0	1½		
		FN	eL	E	18 42.2			USCGS: 8.1S, 122.0E
			M	E	46.2	16		H 18 21 12.2, h 43 km
8	17	T	eP	Z	04 58 39.5	¾		USCGS: 8.3S, 122.1E
								H 04 51 10.4, h 93 km
9	17	FN	eL	E	14 25.7	16		USCGS: 23.8S, 175.9W
								H 14 06 51.6, h 120 km
0	17	M	eP	Z	20 17 36.0	1		USCGS: 24.3S, 175.6W
		T	eP	Z	20 17 41.0	¾		H 20 10 36.4, h 75 km
		FN	eL	E	20 28.1	22		
			M	E	30.2	19		
	18	T	eP	Z	02 16 16.0	¾		USCGS: 8.2S, 122.0E
		M	eP	Z	02 16 22.0	1		H 02 08 38.5, h 35 km
		FN	eL	E	02 30.0	21		
	18	FN	eL	E	08 46.3			USCGS: 24.3S, 174.2W
								H 08 26 49.0, h 25 km
	18	FN	iP	N	14 57 59.0	½	-	H 14 55 01
			iP	E	57 59		-	△ 12°.5
			e	Z	58 03	¼		
			i	E	58 04	¼		USCGS: 49.9S, 163.3E
			iS!	E	15 00 18	13	-	H 14 54 59.3, h 38 km
			eS	N	00 20.0	¼, 22		
			eT	N	10 22.0	¼		
			eT	E	10 41	¼		
			Tmax	N	11 15.0	¾		
		M	eP	Z	14 58 09.0	1		
			e	Z	15 00 35.5	1		
			M	Z	02 56.0	10		
			eT	Z	10 23.5	¾		
			Tmax	Z	11 31.5	¾		

Continued over

International Seismological Centre

o.	Date 1961	Stn.	Phase	Cpt.	Time (GMT) h m s	Per. s	Amp.	Remarks
53	Mar. 18 cont.	T	iP	Z	14 58 15.0	½	+	Compression
			i	Z	15 00 54.5	1	-	
			M	Z	02 36.5	10		
			eT	Z	10 27.5	½		
			Tmax	Z	11 41.5	½		
54	19	T	iP	Z	05 08 14.0	1¼	+	Compression
		M	iP	Z	05 08 17.5	1	+	Compression
								USCGS: 6.4S, 105.5E
								H 04 59 19.3, h 120 km
55	19	T	eP	Z	07 21 21.0	¾		USCGS: 16.0S, 168.2E
		M	eP	Z	07 21 25.0	1		H 07 14 57.4, h 90 km
		FN	eL	E	07 28.7	26		
			M	E	37.2	14		
56	19	T	iP	Z	08 00 19.5	1	+	Compression
		M	eP	Z	08 00 22.0	1		USCGS: 2.3N, 127.4E
								H 07 51 35.0, h 83 km
57	19	M	iP	Z	12 12 16.0	1	-	Dilatation
								USCGS: 16.4S, 167.3E
								H 12 05 47.7, h 16 km
58	19	T	iP	Z	12 54 56.0	1	+	Compression
		M	iP	Z	12 54 59.0	1	+	Compression
								USCGS: 8.1S, 121.9E
								H 12 47 17.5, h 25 km
59	19	FN	eP	N	20 45 05.0	½		
		M	eP	Z	20 45 14.5	½		
			eT	Z	58 13.0	½		
		T	eP	Z	20 45 19.0	½		
			eT	Z	58 37.0	1/3		
			Tmax	Z	59 19.0	½		
0	20	M	iP	Z	16 00 32.0	2½	-	Dilatation
			iPcP	Z	02 36.0	1	+	
			iScP	Z	06 10.0	3	+	
			i	Z	06 31.5	4	-	
		FN	eP	Z	16 00 34.0	¾		H 15 53 15
			iP	E	00 34	1,5	-	△ 40°.5, h 0.03
			iScP	E	06 12	4	+	
			eS	N	06 26.0	4		USCGS: 18.4S, 175.2W
			iS	E	06 26	4	+	H 15 53 09.9, h 175 km
			isS	E	07 42	15	-	
			iScS	E	10 21	6	+	
			iScS	N	10 22	5	+	
			M	E	18.1	19		
		T	iP	Z	16 00 36.0	1½	-	Dilatation

International Seismological Centre

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT) h m s	Per. s	Amp.	Remarks
61	Mar. 20	T	eP	Z	23 49 41.0	¾		USCGS: 24.2S, 175.9W
		M	i	Z	23 49 45.0	1	+	H 23 42 33.9, h 25 km
		FN	e	E	23 55 16	10		
			e	E	57 06	14		
			eL	E	59.6	25		
			M	E	00 06.3	16		
62	21	FN	iP	Z	09 28 35.0	¾	-	Dilatation USCGS: 21.8S, 179.9W H 09 22 31.7, h 595 km
63	21	M	iP	Z	20 00 40.5	1	-	Dilatation
		FN	iP	Z	20 00 41.0	1	-	Dilatation
			ipP	Z	00 51.5	¾	+	
			eL	E	11.2			USCGS: 22.8S, 171.4E
		T	eP	Z	20 00 44.0	1		H 19 54 44.4, h 19 km
64	22	M	eP	Z	14 03 31.5	1		USCGS: 18.0S, 178.3W
		FN	eP	Z	14 03 32.0	1		H 13 56 59.5, h 610 km
65	22	FN	iP	Z	21 34 28.5	½	+	Compression
			ipP	Z	36 07.0	¾	-	USCGS: 24.6S, 179.3E H 21 28 41.6, h 517 km
66	23	T	eP	Z	21 03 30.0	1		
		FN	iP	Z	21 03 33.0	1	+	Compression USCGS: 6.5S, 154.7E H 20 56 32.1, h 143 km
67	24	T	eP	Z	23 09 03.0	1		USCGS: 35.3N, 140.9E
		M	eP	Z	23 09 07.0	1		H 22 57 14.2, h 102 km
		FN	eP	Z	23 09 09.5	1		
68	24	T	iP	Z	23 44 37.5	1	+	Compression
		M	iP	Z	23 44 39.0	1	+	Compression
		FN	iP	Z	23 44 43.0	½	+	Compression
			eP	N	44 43.0	½		
			i	Z	44 53.5	¾	-	USCGS: 2.6S, 141.9E
			eL	E	00 00.2	16		H 23 37 17.1, h 118 km
			M	E	02.7	14		
69	25	M	iP	Z	14 22 02.0	1	+	Compression
		FN	iP	Z	14 22 02.5	¾	+	Compression
		T	iP	Z	14 22 05.5	1	+	Compression USCGS: 17.5S, 179.0W H 14 15 38.1, h 688 km
70	26	T	iP	Z	14 38 21.0	¾	+	Compression
		M	iP	Z	14 38 22.0	1½	+	Compression
		FN	iP	Z	14 38 25.5	½	+	Compression USCGS: 5.7N, 126.4E H 14 29 23.8, h 147 km

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT) h m s	Per. s	Amp.	Remarks
71	Mar. 26	FN	eL	E	20 49.8	22		USCGS: 3.1S, 146.2E
			M	E	53.2	13		H 20 29 05.7, h 25 km
72	27	FN	iP	Z	16 35 07.0	$\frac{3}{4}$	+	Compression
			eP	N	35 07.5	$\frac{1}{2}$		USCGS: 30.7S, 179.3E
			i	Z	35 32.0	$\frac{3}{4}$	+	H 16 29 52.9, h 514 km
73	28	T	iP	Z	09 44 22.0	2	-	Dilatation
			iScP	Z	49 39.5	1	+	
		M	iP	Z	09 44 25.0	2	-	Dilatation
			iScP	Z	49 41.0	1	+	
		FN	iP	Z	09 44 28.0	$1\frac{1}{2}$	-	Dilatation
			iP	N	44 29.0	1	+	
			iP	E	44 33	2	-	H 09 35 52
			i	E	47 28	7	+	$\triangle$ 48°.3, h 0.015 ca.
			iScP	Z	49 43.0	1	+	
			iS	E	51 17	10	-	USCGS: 0.2N, 123.6E
			eS	N	51 21.0	6		H 09 35 55.4, h 83 km
			isS	E	52 07	14	-	
			eSS	N	54 51.0	9		
			i	E	55 33	20		
			eL	E	58.8	40		
			eL	N	10 00.7	33		
			M	E	01.6	21		
			M	N	08.9	15		
74	28	FN	iP	Z	10 03 32.0	$\frac{3}{4}$	-	Dilatation
75	28	M	eP	Z	12 42 51.0	$\frac{3}{4}$		USCGS: 51.7N, 176.2W
		FN	eP	Z	12 42 53.0	$\frac{3}{4}$		H 12 29 12.7, h 60 km
76	28	M	iP	Z	21 02 13.0	1	-	Dilatation
		FN	iP	Z	21 02 16.5	$\frac{3}{4}$	-	Dilatation
								USCGS: 8.7S, 121.9E
								H 20 54 40.3, h 76 km
77	28	FN	iP	Z	23 59 21.5		+	Compression
			iS	NZ	59 25.0	$\frac{1}{2}$	+	Local
78	29	FN	eP	NZ	01 13 17.5	$\frac{1}{2}$		
79	30	FN	iP	Z	01 30 52.0	$\frac{3}{4}$	+	Compression
			i	Z	30 55.5	$\frac{3}{4}$	-	USCGS: 0.3N, 123.9E
								H 01 22 19.1, h 159 km
80	30	FN	eP	Z	08 57 53.0	$\frac{3}{4}$		USCGS: 15.2S, 172.8W
			eSS	E	09 08 27	(9)		H 08 49 45.6, h 25 km
			eL	E	10.6	24		
			M	E	14.1	17		
		T	e	Z	08 57 56.0	1		
		M	e	Z	08 57 58.5	1		

Seismograms read by
Lesley Read.

International Seismological Centre

NOV 14 1961

JOINT DIRECTORS

Professor S. Warren Carey
Professor Gordon H. Newstead

Box 252c, G.P.O.,
Hobart, Tasmania.

APR 1961

International Seismological Centre

TASMANIA UNIVERSITY RADIO-TELEMETERED SEISMIC NET

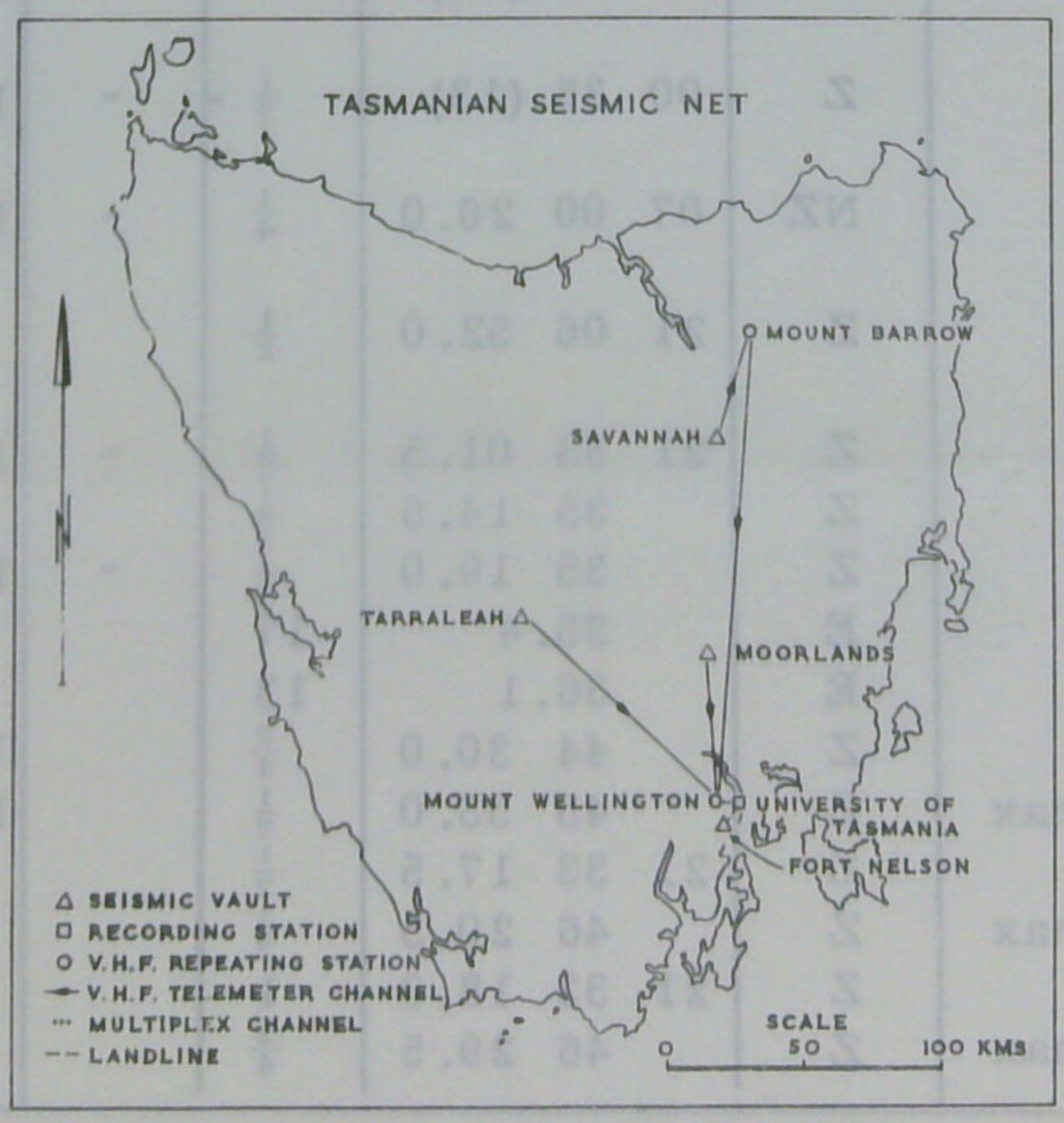
Station Co-ordinates			Altitudes (metres)	Foundations
Fort Nelson (FN)	42°55'35.39"S	147°21'13.02"E	184.1	Dolerite
Tarraleah (T)	42°18'16.34"S	146°27'03.51"E	579.1	Basalt
Moorlands (M)	42°26'33.31"S	147°11'29.26"E	324.6	Top contact of dolerite sill
Savannah (S)	41°43'17.59"S	147°11'22.41"E	179.8	Dolerite

Inter-station distances (metres)		Bearings	Back Bearings
FN – T	101285	305°42'15"	133°18'55"
FN – M	55375	346°03'28"	166°10'04"
FN – S	134526	354°10'30"	174°17'08"
T – M	62891	104°21'43"	283°51'46"
T – S	89086	43°27'24"	223°07'44"
M – S	80089	359°53'12"	179°53'17"

TIME

All stations are radio-telemetered to record on a single multipen recorder (90 mm. per min., response to 50 cycles per sec.) timed by a Rohdë & Schwartz quartz crystal clock. The system is also recorded in parallel on multi-channel magnetic tape.

Seismometer installations not yet permanent, current installation is given overleaf.



Bulletin overleaf.

PROVISIONAL SEISMOLOGICAL BULLETIN

April, 1961

International Seismological Centre

Instruments:

FN Sprengnether (Series H) EW, pendulum 15.3 sec., galvanometer $6\frac{3}{4}$ sec.
FN Newstead-Watt horizontal NS (operating intermittently)
FN Willmore short period vertical " "
M Willmore short period vertical " "
T Willmore short period vertical " "

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
81	April 2	FN	eL	E	22 24.7	14		
			M	E	26.9	9		
82	3	FN	i	Z	22 20 (08)	$\frac{1}{2}$	-	
83	4	FN	iP	Z	05 07 (06)	$\frac{1}{2}$	+	Compression
			eP	N	07 (06)	$\frac{3}{4}$		USCGS: 2.4S, 138.2E
								H 04 59 24.8, h 99 km
84	4	FN	iP	Z	07 54 (44)	$\frac{1}{2}$	-	Dilatation
								USCGS: 19.6S, 177.1W
								H 07 47 48.1, h 276 km
85	4	FN	eL	E	10 40.2	(19)		USCGS: 40.1N, 77.8E
								H 09 46 36.6, h 16 km
86	4	M	iP	Z	10 42 (12)	$\frac{3}{4}$	-	Dilatation
			i	Z	42 (24)	1	+	
		FN	iP	Z	10 42 (15)	$\frac{3}{4}$	-	Dilatation
			i	Z	42 (29)	1	+	USCGS: 5.9S, 149.4E
			i	Z	42 (48)	1	-	H 10 35 11.1, h 124 km
87	5	FN	iP	Z	00 35 (13)	$\frac{1}{2}$	-	Dilatation
88	5	FN	iP	NZ	07 00 26.0	$\frac{1}{4}$	-	Dilatation. Local
89	5	FN	e	Z	21 06 52.0	$\frac{1}{2}$		
90	5	FN	iP	Z	21 33 01.5	$\frac{1}{2}$	-	Dilatation
			e	Z	35 14.5	$\frac{1}{2}$		
			iS	Z	35 19.0	$\frac{1}{2}$	-	H 21 30 06
			eL	E	35.4	17		Δ 12°.3
			M	E	36.1	13		
			eT	Z	44 30.0	$\frac{3}{4}$		USCGS: 52.2S, 160.0E
			Tmax	Z	45 55.0	$\frac{1}{2}$		H 21 30 00.4, h 47 km
		T	e	Z	21 33 17.5	$\frac{1}{2}$		
			Tmax	Z	46 20.5	$\frac{1}{2}$		
		M	e	Z	21 33 18.0	1		
			Tmax	Z	46 29.5	$\frac{3}{4}$		

International Seismological Centre

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT) h m s	Per. s	Amp.	Remarks
91	April 6	M	iP	Z	07 16 49.0	1	+	Compression
92	6	M	iP	Z	15 39 34.5	1	-	Dilatation
		FN	iP	Z	15 39 35.5	3/4	-	Dilatation
		T	iP	Z	15 39 38.5	1	-	Dilatation
								USCGS: 20.3S, 169.4E
								H 15 33 38.6, h 121 km
93	6	FN	iP	Z	20 38 32.0	3/4	-	Dilatation
			eP	N	38 33.0	1/2		
			iS	Z	40 48.0	3/4	-	
			i	Z	40 52.5	1/2	-	H 20 35 38
			eT	Z	50 34.0	1/2		Δ 12°.3
			Tmax	Z	51 27.0	1/2		
		M	eP	Z	20 38 41.0	1/2		
			e	Z	41 10.0	3/4		
94	6	FN	e	Z	22 41 59.5	1/4		Local
95	7	FN	iP	Z	17 43 57.0	3/4	+	Compression
								USCGS: 19.5S, 177.1W
								H 17 37 09.6, h 355 km
96	8	FN	eL	E	16 14.1	21		USCGS: 18.2S, 168.6E
								H 15 59 49.2, h 120 km
97	8	FN	iP	Z	18 12 59.0	1	+	Compression
			e(SKS)	E	23 44	13		USCGS: 38.2S, 72.7W
			eSS	E	29 51	26		H 17 59 46.7, h 60 km
			e(L)	E	35.8	24		
		M	iP	Z	18 12 59.0	1	-	Dilatation
98	8	T	e	Z	21 46 19.0	3/4		USCGS: 14.8N, 145.1E
			i	Z	46 48.0	3/4	+	H 21 36 41.6, h 105 km
		FN	eP	Z	21 46 20.5	1/2		H 21 36 50
			i(pP)	Z	46 46.5	1/2	+	Δ 56°.0 h (0.01)
			eS	E	54 05	10		
			eL	E	22 05 45	29		
99	9	FN	iP	Z	09 26 54.5	3/4	-	Dilatation
			eP	E	26 56	1		
			eP	N	26 56.5	1/2		USCGS: 26.0S, 178.4E
			i	Z	29 14.5	3/4	-	H 09 21 29.0, h 655 km
			iPcP	Z	29 35.0	1	-	
			iScP	Z	32 18.5	1	+	
		M	iP	Z	09 26 56.0	3/4	-	Dilatation
			i	Z	27 05.0	1/2	-	
			e	Z	27 27.0	-		
			ePcP	Z	29 37.5	-		
			iScP	Z	32 19.0	1	+	
		T	iP	Z	09 26 59.0	3/4	-	Dilatation
			iPcP	Z	29 36.0	3/4	+	
			iScP	Z	32 20.5	1	+	

International Seismological Centre

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT) h m s	Per. s	Amp.	Remarks
200	April 9	FN	iP	Z	14 09 07.5	3/4	-	Dilatation
			e(T)	Z	22 35.0	1/2		
201	9	T	iP	Z	15 46 21.0	1	-	Dilatation
			i	Z	46 23.0	1	-	
			i	Z	46 33.5	2	+	
			e	Z	47 05.5	1		
		M	iP	Z	15 46 25.0	1	-	Dilatation
		FN	iP	Z	15 46 25.5	1	-	Dilatation
			i	Z	46 27.0	1	-	
			e	N	46 27.5	1/2		
			e	E	46 28.	1		
			e	N	46 38.5	1 1/2		USCGS: 24.1N, 122.2E
			eS	E	55 39	6		H 15 35 05.4, h 13 km
			eS	N	55 41.5	5 1/2		
			e	E	57 06	10		
			eL	E	16 05.4	31		
			M	E	23.2	16		
202	10	M	eP	Z	19 48 24.0	3/4		USCGS : 0.2S, 132.9E
		FN	eP	Z	19 48 26.0	1/2		H 19 40 15.9, h 36 km
			i	Z	48 32.5	3/4	+	
203	11	FN	iP	Z	00 34 25.5	1	+	Compression
		T	e	Z	00 34 29.0	1		
204	11	FN	iP	Z	08 26 49.5	1/2	+	Compression
			eT	Z	39 03.0	1/2		
			eT	N	39 07.5	1/4		
			Tmax	Z	39 38.0	1/2		
			Tmax	N	39 40.0	1/4		
205	11	FN	iP	Z	17 00 27.0	1/2	-	Dilatation
206	12	FN	iP	Z	03 12 44.0	3/4	+	Compression USCGS: 30.8S, 178.6W H 03 06 53.9, h 190 km
207	12	T	eP	Z	17 26 19.5	1/2		
		FN	iP	Z	17 26 25.5	1/2	+	Compression USCGS: 0.3N, 123, 8E H 17 17 55.3, h 122 km
208	12	M	iP	Z	17 40 48.0	1	+	Compression
		T	iP	Z	17 40 48.0	1	+	Compression
			ipP	Z	41 01.0	1	-	
		FN	iP	Z	17 40 50.5	3/4	+	Compression
			ipP	Z	41 03.5	1	-	USCGS: 48.1N, 154.7E H 17 27 46.5, h 42 km

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT) h m s	Per. s	Amp.	Remarks
209	April 12	M	iPKP	Z	22 39 24.0	1	+	Compression
			epPKP	Z	39 44.5	1		USCGS: 13.1N, 88.9W
		FN	ePKP	Z	22 39 25.0	1		H 22 20 33.6, h 122 km
			epPKP	Z	39 45.0	3/4		
		T	iPKP	Z	22 39 25.0	3/4	+	Compression
			e	Z	39 50.0	1		
210	13	FN	eL	E	17 26.4	26		USCGS: 40.1N, 77.8E
								H 16 34 39.1, h 19 km
211	15	FN	iP	Z	01 24 40.0	3/4	-	Dilatation
								USCGS: 13.2S, 166.9E
								H 01 18 12.8, h 229 km
212	15	FN	iP	Z	04 41 04.5	1/2	+	Compression
213	15	FN	iP	Z	09 43 10.5	1	-	Dilatation
								USCGS: 32.2S, 178.9W
								H 09 36 24.4, h 131 km
214	16	FN	eL	E	12 26.2			USCGS: 3.5S, 149.5E
								H 12 05 53.8, h 109 km
215	16	FN	eP	Z	16 54 47.0	1/2		
216	17	FN	i	Z	17 57 23.5	1/2	+	
217	18	FN	iP	Z	04 16 29.5	1	+	Compression
		M	iP	Z	04 16 30.0	1	+	Compression
								USCGS: 33.0S, 179.6W
								H 04 10 36.4, h 25 km
218	19	T	eP	Z	16 25 10.5	1		USCGS: 44.2N, 148.0E
		FN	eP	Z	16 25 13.5	3/4		H 16 12 28.7, h 51 km
			esP	Z	25 29.0	1		
219	29	FN	iP	Z	00 22 37.5	3/4	+	Compression
								USCGS: 5.6S, 128.7E
								H 00 15 12.5, h 285 km
220	20	FN	iP	Z	18 55 19.0	1/2	-	Dilatation
			i	Z	55 20.5	1/6	+	
			i	Z	55 45.5	1/2	-	
			eT	Z	19 08 01.5	1/2		
			Tmax	Z	08 31.5	1/2		
221	20	FN	iP	Z	19 25 21.0	1/2	-	Dilatation
			eL	E	34.3	13		USCGS: 32.9S, 178.8W
			M	E	37.7	17		H 19 19 29.7, h 58 km
222	20	T	iP	Z	21 47 11.0	3/4	+	Compression
			isP	Z	47 27.5	1	+	
		FN	iP	Z	21 47 11.5	1/2	+	Compression
			ipP	Z	47 22.5	3/4	-	
			eL	E	59.8	27		USCGS: 15.2S, 173.7W
			M	E	22 04.5	17		H 21 39 07.0, h 25 km

Continued over.

International Seismological Centre

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
222	April 20	M	i	Z	21 47 22.5	$\frac{3}{4}$	+	
	Continued.		i	Z	47 34.0	1	-	
			i	Z	47 41.0	$\frac{3}{4}$	-	
223	21	M	iP	Z	13 54 41.5	1	+	Compression
			ipP	Z	54 51.0	1	+	
		FN	eL	E	14 05.5	14		
224	21	M	e(P)	Z	20 23 53.0	1		USCGS: 47.7N, 154.6E
			i	Z	24 03.0	1	+	H 20 10 38.3, h 27 km
225	22	T	e	Z	00 38 51.0	1		
		M	e	Z	00 38 52.5	$1\frac{1}{2}$		
		FN	e	E	00 43 20	23		
			i(S)	E	46 00	13		
			e	E	48 48	27		
			eL	E	50.6	23		
			M	E	52.4	19		
226	22	M	iP	Z	11 23 10.5	$1\frac{1}{2}$	-	Dilatation
227	22	M	iP	Z	19 06 44.5	1	+	Compression
		FN	e	E	19 13 20			
			eL	E	17.6	28		USCGS: 3.5S, 150.1E
			M	E	22.1	16		H 18 59 23.2, h 91 km
228	23	M	iP	Z	05 25 35.0	1	+	Compression
			i	Z	25 45.0	$\frac{1}{4}$	-	
		FN	eP	Z	05 25 38.0	$\frac{3}{4}$		USCGS: 26.2N, 129.8E
			eP	N	25 38.0	1		H 05 14 31.1, h 110 km
			e	Z	25 48.0	$\frac{3}{4}$		
229	23	M	iP	Z	09 14 27.5	1	-	Dilatation
			ipP	Z	14 36.5	1	-	
			i	Z	14 45.5	$1\frac{1}{2}$	+	USCGS: 44.6N, 150.2E
		FN	iS	E	09 25 08	10	-	H 09 01 41.8, h 44 km
			i	E	25 36	8	+	
			e(PS)	E	27 10	16		
			eSS	E	30 42	19		
			e(L)	E	37 05	23		
			eG	E	39.5	41		
230	24	FN	iP	Z	06 13 (53.5)	$\frac{1}{4}$	-	Dilatation Local. Quarry?
231	25	T	iP	Z	03 40 02.0	1	+	Compression USCGS: 0.7S, 124.1E H 02 31 44.2, h 200 km
232	25	FN	iP	Z	11 22 36.5	$\frac{1}{2}$	-	Dilatation
			eL	E	31.6	27		USCGS: 32.7S, 178.5W
			M	E	34.8	18		H 11 16 41.4, h 45 km
		M	iP	Z	11 22 37.5	1	-	Dilatation
		T	eP	Z	11 22 44.0	1		

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No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT) h m s	Per. s	Amp.	Remarks
233	April 26	FN	iP	Z	07 28 55.5	½	-	Dilatation USCGS: 21.8S, 179.5W H 07 22 52.2, h 622 km
234	26	T	iP	Z	17 01 49.0	1	-	Dilatation
			epP	Z	02 20.0	¾		
		FN	eP	Z	17 01 55.5	¾		USCGS: 0.2N, 124.1E
			epP	Z	02 27.0	¾		H 16 53 29.4, h 135 km
235	26	T	iP	Z	17 08 57.5	½	+	Compression
			iS	Z	09 11.5	1/3	-	Local
		FN	eP	Z	17 09 14.5	¼		
			iS	Z	09 41.0	1/6	(+)	
		M	e(S)	Z	17 09 27.0	½		
236	27	FN	iP	Z	00 31 35.0	1	+	Compression USCGS: 25.3S, 180 H 00 25 48.7, h 504 km
237	27	FN	e	Z	07 09 21.0	½		Seismic ?
238	28	FN	iP	Z	20 42 58.5	¾	+	Compression USCGS: 17.7S, 178.7W H 20 36 25.3, h 595 km
239	28	FN	iP	Z	22 22 57.5	½	+	Compression
			i(pP)	Z	23 20.0	½	+	
240	29	FN	iP	Z	06 47 49.5	1	-	Dilatation USCGS: 49.8S, 126.8E H 06 44 15.6, h 119 km
241	29	T	$ePKP_1$	Z	09 49 00.0	1		
			e	Z	49 04.5	1		
		M	$iPKP_1$	Z	09 49 01.0	1	-	Dilatation
		FN	$iPKP_1$	Z	09 49 05.0	1	-	Dilatation
			i	Z	49 09.5	¾	+	
			$iPKP_2$	Z	49 17.0	1	+	
			eSKS	E	55 13	(18)		
			eSSS	E	10 12 05	29		
242	30	M	iP	Z	14 56 13.5	1	-	Dilatation
			ePcP	Z	58 09.0	1		
		T	iP	Z	14 56 17.0	1	-	Dilatation
			iPcP	Z	58 11.5	1	+	
		FN	eL	E	15 07.9	29		USCGS: 15.3S, 174.4W
			M	E	11.2	17		H 14 48 11.5, h 25 km

Seismograms read by Lesley Read.

International Seismological Centre

MAY 1961
NOV 8 1961

JOINT DIRECTORS

Professor S. Warren Carey
Professor Gordon H. Newstead

Box 252c, G.P.O.,
Hobart, Tasmania.

International Seismological Centre

TASMANIA UNIVERSITY RADIO-TELEMETERED SEISMIC NET

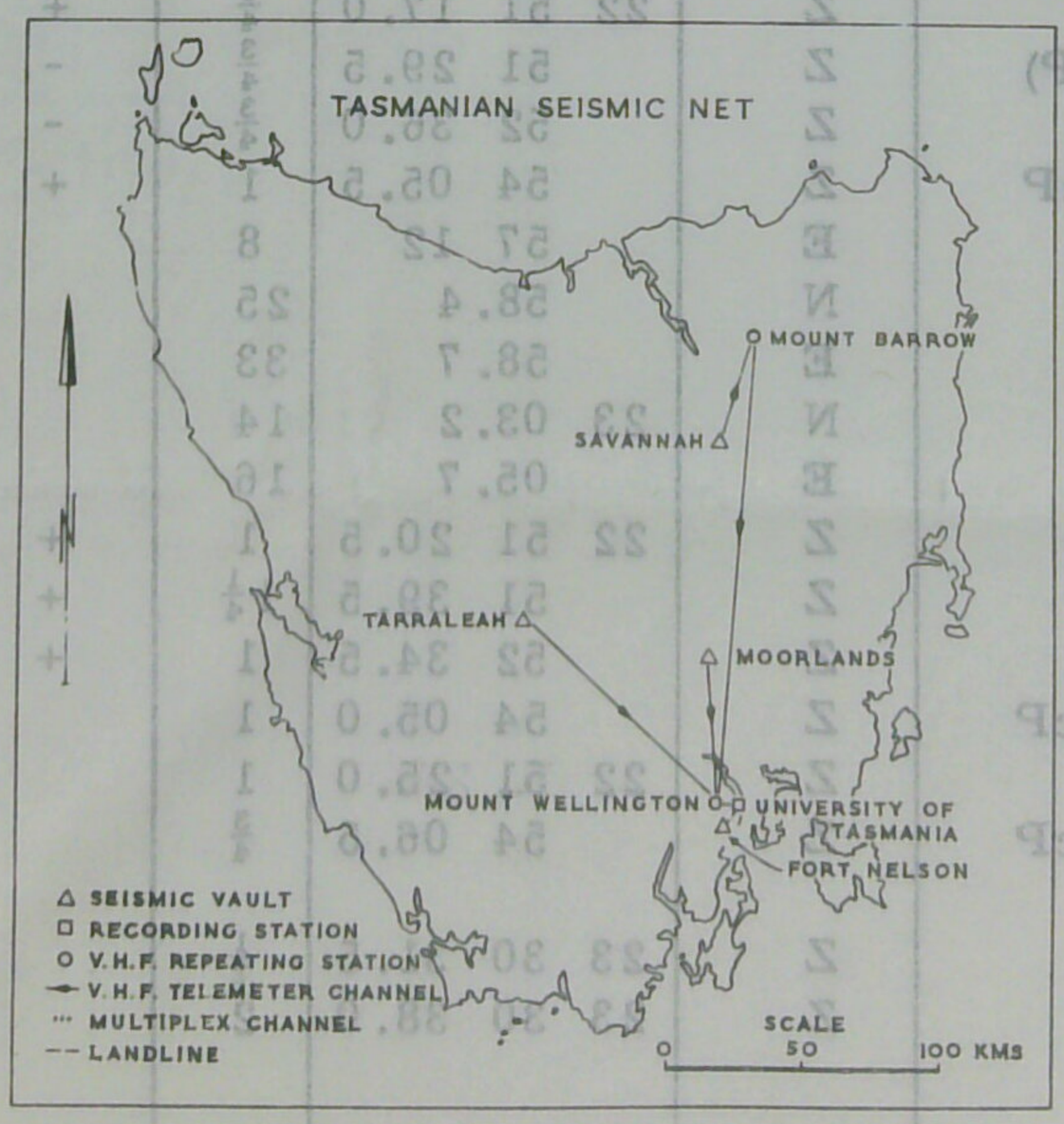
	Station Co-ordinates		Altitudes (metres)	Foundations
Fort Nelson (FN)	42°55'35.39"S	147°21'13.02"E	184.1	Dolerite
Tarraleah (T)	42°18'16.34"S	146°27'03.51"E	579.1	Basalt
Moorlands (M)	42°26'33.31"S	147°11'29.26"E	324.6	Top contact of dolerite sill
Savannah (S)	41°43'17.59"S	147°11'22.41"E	179.8	Dolerite

Inter-station distances (metres)		Bearings	Back Bearings
FN – T	101285	305°42'15"	133°18'55"
FN – M	55375	346°03'28"	166°10'04"
FN – S	134526	354°10'30"	174°17'08"
T – M	62891	104°21'43"	283°51'46"
T – S	89086	43°27'24"	223°07'44"
M – S	80089	359°53'12"	179°53'17"

TIME

All stations are radio-telemetered to record on a single multipen recorder (90 mm. per min., response to 50 cycles per sec.) timed by a Rohdë & Schwartz quartz crystal clock. The system is also recorded in parallel on multi-channel magnetic tape.

Seismometer installations not yet permanent, current installation is given overleaf.



Bulletin overleaf.

PROVISIONAL SEISMOLOGICAL BULLETIN

May, 1961

International Seismological Centre

Instruments:

FN Sprengnether (Series H) EW, Pendulum 15.3 sec., galvanometer $6\frac{3}{4}$ sec.
FN Newstead-Watt horizontal NS (operating intermittently)
FN Willmore short period vertical " "
M Willmore short period vertical " "
T Willmore short period vertical " "

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT) h. m. s.	Per. s.	Amp.	Remarks
43	May 1	FN	e	Z	08 22 16.5	$\frac{1}{4}$		Local
			e	N	22 17.5	$\frac{1}{4}$		
			e	Z	22 25.0	$\frac{1}{4}$		
			i	Z	22 30.0	1/3	-	
44	2	FN	eP	Z	19 44 45.0	1		USCGS: 27.8S, 176.4W H 19 38 13.5, h 53 km
45	2	FN	iP	Z	19 46 07.0	$\frac{1}{2}$	-	Dilatation
			i	Z	46 25.5	1	+	USCGS: 27.5S, 176.7W
			eL	E	55.9			H 19 39 38.2, h 77 km
46	2	FN	iP	Z	20 55 36.0	$\frac{3}{4}$	-	Dilatation
			eL	E	21 06.6	15		
			eL	N_1	06.8	15		
		M	eP	Z	20 55 36.0	$\frac{3}{4}$		
47	2	FN	iP	Z	22 51 17.0	$\frac{3}{4}$	+	Compression
			i(pP)	Z	51 29.5	$\frac{3}{4}$	-	
			i	Z	52 36.0	$\frac{3}{4}$	-	
			iPcP	Z	54 05.5	1	+	USCGS: 27.8S, 176.5W
			e	E	57 12	8		H 22 44 44.3, h 47 km
			eL	N	58.4	25		
			eL	E	58.7	33		
			M	N	23 03.2	14		
			M	E	05.7	16		
		M	iP	Z	22 51 20.5	1	+	Compression
			i	Z	51 39.5	$1\frac{1}{4}$	+	
			i	Z	52 34.5	1	+	
			ePcP	Z	54 05.0	1		
		T	eP	Z	22 51 25.0	1		
			ePcP	Z	54 06.5	$\frac{3}{4}$		
48	2	FN	eP	Z	23 30 31.5	$\frac{1}{2}$		USCGS: 27.7S, 176.4W
		M	e	Z	23 30 38.0	2		H 23 24 03.6, h 84 km

o.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
49	May 3	FN	eP	Z	20 58 51.0	½		Local
		T	iP	Z	20 58 54.0	½	+	Compression
50	5	FN	iP	Z	13 49 52.0	1	+	Compression
			eL	N	57.8	19		
			eL	E	14 01.3	18		USCGS: 27.8S, 176.1W
			M	N	04.2	13		H 13 43 21.1, h 84 km
51	5	FN	iP	Z	22 06 26.0	¾	-	Dilatation
			iS	Z	08 53.5	¾	+	
			i	Z	08 57.0	¾	+	H 22 03 39
			eL	E	09.5	13		△ 12°.4
			iT	Z	18 21.5	¾	+	
			Tmax	Z	19 32.0	½		
			i	Z	22 12.0	½	+	
		M	eT	Z	22 19 19.0	½		
			Tmax	Z	19 47.0	¾		
		T	eP	Z	22 06 51.0	(½)		
			eT	Z	19 34.0	½		
			Tmax	Z	19 58.0	½		
52	6	FN	eT	Z	03 30 24.5	¾		
53	6	FN	eP	Z	10 36 32.0	½		H 10 33 34
			eS	Z	38 50.5	½		△ 12°.5
			eT	Z	48 53.5	1/3		
			Tmax	Z	49 25.0	½		
54	6	T	iP	Z	22 41 52.5	¾	+	Compression
			e(pP)	Z	42 11.0	¾		USCGS: 6.3N, 126.3E
		M	eP	Z	22 41 56.0	¾		H 22 32 49.7, h 110 km
		FN	iP	Z	22 41 57.5	¾	+	Compression
55	6	M	eP	Z	23 19 43.0	1		USCGS: 17.2S, 167.9E
			i	Z	19 53.0	1	+	H 23 13 29.5, h 96 km
			i(pP)	Z	19 59.0	1	+	
		T	eP	Z	23 19 45.5	¾		
			i	Z	19 56.0	1	+	
		FN	eP	Z	23 19 50.0	½		
			e	Z	20 46.0	¾		
			eL	N	31.0	14		
56	6	FN	iP	Z	23 44 00.5	½	+	Compression
			e	Z	46 11.5	½		H 23 41 05
			i	Z	46 13.0	¾	-	△ 12°.3
			iS	Z	46 17.0	½	+	
			eT	Z	56 02.5	1/3		USCGS: 51.5S, 161.3E
			Tmax	Z	56 53.0	½		H 23 40 54.7, h 21 km
			Tmax	N	56 54.5	½		
		M	eP	Z	23 44 10.0	¾		H 23 41 09
			e	Z	45 08.5	1		△ 12°.7
			i	Z	46 27.0	¾	+	
			iS	Z	46 31.0	¾	-	
			eT	Z	56 37.0	½		
			Tmax	Z	57 10.5	½		

Continued on next page

International Seismological Centre

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No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h, m. s.	s.		
256	May 6	T	eP	Z	23 44 14.0	$\frac{3}{4}$		H 23 41 07
	continued.		e	Z	44 45.0	$\frac{1}{2}$		Δ 13°.1
			eS	Z	46 40.0	$\frac{3}{4}$		
			eT	Z	56 39.0	$\frac{3}{4}$		
			Tmax	Z	57 20.5	$\frac{3}{4}$		
257	7	T	iP	Z	00 32 42.0	$\frac{3}{4}$	+	Compression
			isP	Z	33 20.0	$\frac{3}{4}$	-	USCGS: 6.1S, 154.4E
			ePcP	Z	35 02.5	1		H 00 25 40.8, h 123 km
			i	Z	35 06.5	$\frac{3}{4}$	-	
		M	iP	Z	00 32 42.0	$\frac{3}{4}$	+	Compression
			iPcP	Z	35 03.0	1	-	
			i	Z	35 07.0	1	-	
		FN	iP	Z	00 32 45.5	$\frac{3}{4}$	+	Compression
			iPcP	Z	35 04.0	$\frac{3}{4}$	+	
			i	Z	35 07.5	$\frac{1}{2}$	-	
			eL	E	44.3	19		
			eL	N	44.9	20		
258	7	T	iP	Z	04 40 29.0	$\frac{1}{2}$	-	Dilatation
			ePcP	Z	42 07.0	1		USCGS: 8.6S, 111.4E
		M	eP	Z	04 40 32.5	1		H 04 32 14.5, h 113 km
		FN	iP	Z	04 40 35.5	$\frac{1}{2}$	-	Dilatation
259	7	FN	i(SKP)	Z	04 43 51.0	$\frac{3}{4}$	-	USCGS: 20.0N, 108.9W
		M	e	Z	04 43 55.0	$1\frac{1}{2}$		H 04 22 19.5, h 20 km
		T	i(SKP)	Z	04 43 55.0	1	-	
260	7	T	iP	Z	10 31 44.0	1	-	Dilatation
			isP	Z	32 21.0	1	-	
		M	iP	Z	10 31 47.0	1	-	Dilatation
			isP	Z	32 23.0	$1\frac{1}{2}$	+	
		FN	iP	Z	10 31 50.0	1	-	Dilatation
								USCGS: 5.8N, 126.8E
								H 10 22 43.7, h 89 km
261	8	T	iP	Z	23 00 34.0	$\frac{1}{2}$	-	Dilatation
		FN	iP	Z	23 00 40.0	$\frac{1}{2}$	-	Dilatation
								USCGS: 0.2N, 123.5E
								H 22 52 05.2, h 88 km
262	9	T	e	Z	08 52 24.5	1/3		Local
			e	Z	52 35.5	1/3		
		FN	eP	N_sZ	08 52 30.5	$\frac{1}{4}$		
			eS	N_sZ	52 48.0	$\frac{1}{4}$		
		M	e	Z^s	08 52 49.5	$\frac{1}{2}$		
263	9	T	iP	Z	11 13 28.5	$\frac{3}{4}$	+	Compression
		FN	iP	Z	11 13 32.0	$\frac{3}{4}$	+	Compression
								USCGS: 6,2S, 154.5E
								H 11 06 26.2, h 110 km
264	9	FN	iP	N_sZ	13 35 29.5	$\frac{1}{2}$	-	Dilatation
			eS	Z	37 46.0	$\frac{1}{2}$		H 13 32 33
			eT	Z	47 29.5	$\frac{1}{2}$		Δ 12°.4

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No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
265	May 10	FN	iP	Z	10 13 18.0	1	+	Compression
		T	iP	Z	10 13 21.5	1½	+	Compression
								USCGS: 15.8S, 172.3W
								H 10 05 13.7, h 52 km
266	11	T	iP	Z	05 33 15.5	1	-	Dilatation
								USCGS: 19.1S, 178.0W
								H 05 26 36.2, h 486 km
267	11	FN	eL	N_1	09 21.2	25		USCGS: 37.2S, 73.6W
			eL	E	24.6			H 08 38 27.1, h 47 km
268	12	FN	eL	N_1	05 01.4	13		USCGS: 27.7S, 176.2W
			eL	E	02.1	17		H 04 44 28.6, h 60 km
269	13	FN	eP	Z	13 48 23.0	1		USCGS: 27.8S, 176.2W
								H 13 41 48.1, h 32 km
270	13	FN	eP	Z	14 25 17.0	½		USCGS: 27.9S, 176.0W
			eL	N_1	33.2	20		H 14 18 42.4, h25 km
			M	N_1	35.9	16		
			eL	E	38.6	17		
			M	E	42.0	15		
		M	e	Z	14 25 19.0	1		
271	13	M	iP	Z	14 59 30.0	¾	-	Dilatation
			iPcP	Z	15 01 34.0	1	-	
		FN	iP	Z	14 59 30.5	½	-	Dilatation
			iP	N_S	59 31.5	¼	-	
			i	Z	59 47.0	¾	+	USCGS: 17.5S, 178.8W
			iPcP	Z	15 01 35.0	½	-	H 14 52 55.3, h 556 km
		T	iP	Z	14 59 34.0	½	-	Dilatation
			iPcP	Z	15 01 35.5	¾	-	
272	13	T	iP	Z	19 30 31.0	¾	-	Dilatation
		M	eP	Z	19 30 33.0	¾		
		FN	iP	Z	19 30 35.0	¾	-	Dilatation
								USCGS: 25.3N, 122.6E
								H 19 19 37.3, h 261 km
273	14	FN	eP	Z	00 17 34.0	½		USCGS: 39.6S, 176.8E
								H 00 12 33.6, h40 km
274	14	FN	eP	Z	12 31 41.0	½		USCGS: 6.3S, 146.2E
								H 12 24 36.8, h 79 km
275	15	T	eP	Z	11 21 11.0	½		
		FN	iP	Z	11 21 18.5	½	+	Compression
								USCGS: 7.1S, 122.3E
								H 11 13 46.8, h 248 km

International Seismological Centre

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT) h m s	Per. s	Amp.	Remarks
276	May 15	M	iP	Z	19 18 32.5	1	-	Dilatation
			ipP	Z	18 47.0	1	-	USCGS: 15.3S, 166.6E
			isP	Z	18 53.0	1	+	H 19 12 10.8, h 58 km
		T	iP	Z	19 18 35.0	1 1/4	-	Dilatation
			ipP	Z	18 49.0	1 1/2	-	
		FN	iP	Z	19 18 35.0	1/2	-	Dilatation
			ipP	Z	18 49.0	1	-	
			isP	Z	18 56.0	3/4	+	
			i	Z	19 05.0	3/4	+	
277	15	M	eP	Z	21 00 14.5	1		
		FN	iP	Z	21 00 14.5	3/4	-	Dilatation
			eP	N_S	00 15.0	1/4		USCGS: 20.0S, 177.2W
		T	eP	Z	21 00 18.0	1		H 20 53 05.3, h 89 km
278	16	FN	eL	E	17 53.0			USCGS: 27.9S, 176.4W H 17 27 34.1, h 53 km
279	17	FN	eL	E	20 14.9			USCGS: 52.0N, 173.9E H 19 29 19.3, h 21 km
280	18	FN	iP	Z	20 07 42.0	1/2	+	Compression
			eP	N_S	07 42.5	1/2		
			eT	Z	20 24.5	1/2		
281	19	FN	eP	Z	00 59 16.0	3/4		USCGS: 3.8N, 125.7E
			epP	Z	59 38.0	1/2		H 00 50 20.8, h 77 km
282	19	FN	iP	Z	02 27 26.0	3/4	-	Dilatation USCGS: 22.5S, 179.2E H 02 21 31.8, h 600 km
283	19	FN	eP	Z	03 28 24.0	1/2		
			eP	N_S	28 24.0	1/4		
			eT	Z	41 03.0	1/2		
			Tmax	N_S	41 30.0	1/4		
			Tmax	Z	41 32.0	1/2		
284	20	FN	iP	N_SZ	06 03 33.0	1/3	+	Compression. Local.
285	21	M	eP	Z	21 42 04.5	1/2		USCGS: 34.3S, 150.4E
			eS	Z	43 47.5	3/4		H 21 40 03.2, h 27 km
		T	eP	Z	21 42 06.5	1/2		
			eS	Z	43 51.0	3/4		
		FN	eP	N_S	21 42 10.0	1/3		
			iS	E	43 58.0	1	-	
			iS	N_S	43 59.0	1	-	
			eL	N_1	44.5	2 1/2		
			M	N_1	45.9	9		

International Seismological Centre

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
286	May 22	FN	eP	N_s	13 51 55.0	$\frac{1}{4}$, 1		H 13 44 30
			iP	E	51 55	3	-	△ 39°.8, h 0.01 ca.
			iS	N_1	57 52.0	11	+	
			iS	E	57 55	7	+	
			isS	E	58 38	6	+	USCGS: 21.3S, 174.4W
			e(L)	N_1	14 00.9	27		H 13 44 35.8, h 97 km
			eL	E	03.4	22		
			M	N_1	06.6	14		
			M	E	12.3	14		
		T	iP	Z	13 51 57.5	1	-	Dilatation
		M	i	Z	13 52 02.5	1	+	
287	22	M	iP	Z	17 39 23.5	$\frac{1}{2}$, 1	+	Compression
		FN	eP	N_s	17 39 24.0	$\frac{1}{2}$		H 17 32 17
			iP	E	39 26	2	-	△ 36°.9, h 0.00 ca.
			eS	E	45 06	14		
			e(SSS)	N_1	47 46.0	26		USCGS: 22.8S, 176.1W
			eL	E	48.0	23		H 17 32 21.6, h 35 km
			M	E	50.6	25		
		T	iP	Z	17 39 28.0	$\frac{3}{4}$	+	Compression
			iPcP	Z	41 51.0	$\frac{1}{2}$	-	
			eScP	Z	45 36.5	1		
288	23	M	iPKP	Z	03 04 32.5	1	-	Dilatation
			i	Z	04 35.5	1	+	
		T	ePKP	Z	03 04 32.0	1		USCGS: 36.4N, 28.3E
			i	Z	04 34.0	1	+	H 02 45 16.0, h 49 km.
		FN	eL	E	03 51.6			
289	23	FN	eL	N_1	06 04.9	17		
290	23	M	e	Z	09 30 26.0	1		
291	23	M	iPKP	Z	17 03 48.5	1	-	Dilatation USCGS: 12.6N, 87.3W H 16 44 59.4, h 138 km
292	24	M	eP	Z	17 26 05.0	1		USCGS: 8.2S, 121.8E
		FN	eL	N_1	17 45.1	14		H 17 18 17.6, h 36 km
293	28	T	eP	Z	02 37 31.0	$\frac{1}{2}$		USCGS: 4.9S, 145.0E H 02 30 20.8, h 59 km
294	31	T	eP	Z	14 52 24.0	$\frac{3}{4}$		USCGS: 48.9N, 154.5E
			e(sP)	Z	52 41.5	$\frac{3}{4}$		H 14 39 20.4, h 50 km
		M	iP	Z	14 52 24.0	1		

International Seismological Centre

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h m s	s		
295	May 31	T	eP	Z	19 23 04.5	$\frac{3}{4}$		USCGS: 5.3S, 151.6E
		M	eP	Z	19 23 07.5	1		H 19 15 57.0, h 56 km
			i	Z	23 14.5	1	+	
			ipP	Z	23 21.0	$\frac{3}{4}$	-	
			isP	Z	23 28.0	1	+	
		FN	eS	N_1	19 29 02.0	30		
			eS	E	29 03			
			eSSS	E	31 51	11		
			eL	N_1	34.6	27		
			eL	E	35.4	24		
			M	N_1	37.0	20		
			M	E	40.8	18		

Seismograms read by Lesley Read.

DEC 18 1961

JUN 1961

JOINT DIRECTORS

Professor S. Warren Carey
Professor Gordon H. Newstead

Box 252c, G.P.O.,
Hobart, Tasmania.

International Seismological Centre

TASMANIA UNIVERSITY RADIO-TELEMETERED SEISMIC NET

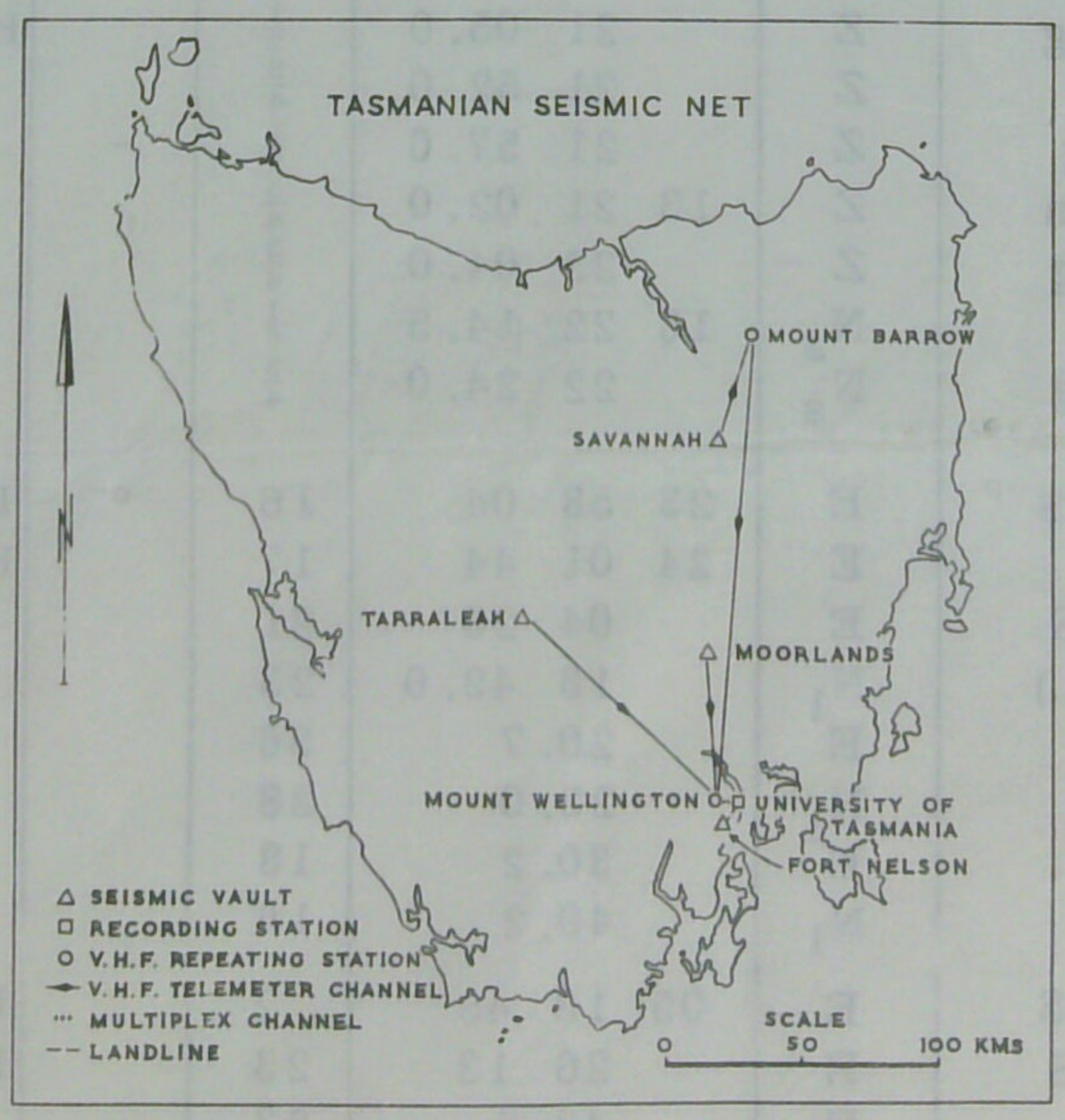
Station Co-ordinates			Altitudes (metres)	Foundations
Fort Nelson (FN)	42°55'35.39"S	147°21'13.02"E	184.1	Dolerite
Tarraleah (T)	42°18'16.34"S	146°27'03:51"E	579.1	Basalt
Moorlands (M)	42°26'33.31"S	147°11'29.26"E	324.6	Top contact of dolerite sill
Savannah (S)	41°43'17.59"S	147°11'22.41"E	179.8	Dolerite

Inter-station distances (metres)		Bearings	Back Bearings
FN – T	101285	312° ~~305°~~ 42'15"	133°18'55"
FN – M	55375	346°03'28"	166°10'04"
FN – S	134526	354°10'30"	174°17'08"
T – M	62891	104°21'43"	283°51'46"
T – S	89086	43°27'24"	223°07'44"
M – S	80089	359°53'12"	179°53'17"

TIME

All stations are radio-telemetered to record on a single multipen recorder (90 mm. per min., response to 50 cycles per sec.) timed by a Rohdë & Schwartz quartz crystal clock. The system is also recorded in parallel on multi-channel magnetic tape.

Seismometer installations not yet permanent, current installation is given overleaf.



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PROVISIONAL SEISMOLOGICAL BULLETIN

June, 1961

International Seismological Centre

nstruments:

'N	Sprengnether (Series H) EW, Pendulum 15.3 sec., galvanometer $6\frac{3}{4}$ sec.
'N	Newstead-Watt horizontal NS, short and long periods (operating intermittently)
'N	Willmore short period vertical (operating intermittently)
M	Willmore short period vertical " "
T	Willmore short period vertical " "

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT) h. m. s.	Per. s.	Amp.	Remarks
96	June 1	T	ePn	Z	09 36 37.0	$\frac{3}{4}$		USCGS: 38.4S, 144.2E
			eSg	Z	37 37.5	$\frac{3}{4}$		H 09 35 35.2, h 28 km
		M	ePn	Z	09 36 44.5	$\frac{1}{2}$		
			e	Z	36 48.5	$\frac{3}{4}$		
			ePg	Z	37 00.5	$\frac{3}{4}$		
			e	Z	37 25.0	1		
			eSg	Z	37 47.5	1		
		FN	ePn	N_s	09 36 49.0	$\frac{1}{2}$		
			e	N_s	38 00.0	$\frac{1}{2}$		
			iSg	N_s	38 09.0	$\frac{3}{4}$	-	
			eSg	E	38 09	$\frac{1}{2}$		
97	1	T	ePn	Z	09 54 13.0	$\frac{1}{2}$		Aftershock of No. 296
			iSg	Z	55 09.0	$\frac{3}{4}$	-	
		M	e(Sg)	Z	09 55 23.5	1		
		FN	e	N_s	09 55 27.0	$\frac{1}{2}$		
98	1	T	ePn	Z	13 20 51.0	$\frac{1}{2}$		USCGS: 38.3S, 144.2E
			ePg	Z	21 05.0	$\frac{1}{2}$		H 13 19 50.8, h 29 km
			e	Z	21 52.0	$\frac{3}{4}$		
			iSg	Z	21 57.0	$\frac{1}{2}$	-	
		M	ePn	Z	13 21 02.0	$\frac{3}{4}$		
			eSg	Z	22 04.0	$\frac{3}{4}$		
		FN	e	N_s	13 22 14.5	$\frac{1}{2}$		
			eSg	N_s	22 24.0	$\frac{3}{4}$		
99	1	FN	ePS	E	23 58 04	16		USCGS: 10.6N, 39.3E
			e	E	24 01 44	17		H 23 29 21.1, h 51 km
			eSS	E	04 26	21		
			e(L)	N_l	16 49.0	23		
			eL	E	20.7	36		
			eL	N_l	23.0	28		
			M	E	30.2	18		
			M	N_l	40.2	16		
00	1	FN	ePS	E	05 19 46	7		USCGS: 9.8N, 40.0E
			eSS	E	26 13	23		H 04 51 10.4, h 41 km
			eL	E	43.8	23		
			eL	N_l	52.3	18		
			M	E	57.9	16		
			M	N_l	59.1	17		

.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
1	June 3	T	eP	Z	06 02 33.5	1		USCGS: 4.3S, 151.1E
			isP	Z	02 47.0	$\frac{3}{4}$	-	H 05 55 12.6, h 18 km
			e	Z	03 18.0	1		
		M	eP	Z	06 02 34.0	1		
			i	Z	03 18.5	1	+	
		FN	eL	N_1	15.0	22		
			eL	E	15.6	28		
2	3	FN	eL	E	09 34.6	27		USCGS: 4.3S, 150.9E
			eL	N_1	35.6	23		H 09 14 32.1, h 25 km
3	3	T	eP	Z	17 51 48.5	1		USCGS: 0.3N, 123.8E
			esP	Z	52 19.5	1		H 17 43 21.5, h 88 km
4	4	FN	eL	E	08 25.6			USCGS: 33.8N, 81.8E
								H 07 33 05.4, h 46 km
5	8	M	iP	Z	09 41 11.0	1	+	Compression
			epP	Z	41 34.5	1		USCGS: 10.0S, 161.2E
			e	Z	46 02.5	$1\frac{1}{2}$		H 09 34 27.0, h 100 km
		T	iP	Z	09 41 12.0	$\frac{3}{4}$	+	Compression
		FN	eP	N_s	09 41 16.0	$\frac{3}{4}$		
6	8	T	eP	Z	15 51 40.5	$\frac{1}{2}$		USCGS: 8.1S, 121.7E
		M	eP	Z	15 51 45.5	1		H 15 44 01.0, h 25 km
			ePP	Z	53 23.0	$1\frac{1}{2}$		
		FN	eP	N_s	15 51 52.5	$\frac{3}{4}$		
			eL	E	16 04.5			
			eL	N_1	05.6	36		
			M	N_1	11.5	16		
7	11	FN	M	E	06 15.8	18		USCGS: 28.9N, 54.6E
								H 05 10 26.0, h 38 km
8	11	FN	eL	E	10 47.4	14		
9	12	FN	eP	E	07 38 32	$\frac{1}{2}$		USCGS: 49.6S, 163.8E
			eS	E	40 48	$\frac{1}{2}$		H 07 35 24.4, h 34 km
			eL	E	41.2	15		
			M	E	42.0	11		
			Tmax	E	51 50	$\frac{1}{2}$		
0	13	M	eP	Z	21 44 54.5	$\frac{3}{4}$		USCGS: 21.4S, 176.4W
			esP	Z	45 35.5	$\frac{3}{4}$		H 21 37 55.0, h 146 km
		FN	eP	N_s	21 44 55.0	1/3		
1	16	M	iPKP	Z	10 51 00.0	$\frac{3}{4}$	+	Compression
			ipPKP	Z	51 32.0	1	-	
			i	Z	54 13.5	1	-	USCGS: 8.8N, 73.4W
			e	Z	55 07.5	1		H 10 31 56.2, h 120 km
2	17	FN	iP	N_s	15 31 45.0	$\frac{1}{2}$	+	USCGS: 3.7S, 138.2E
								H 15 24 17.8, h 139 km

International Seismological Centre

	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
	June 20	M	eP	Z	14 32 08.0	1		USCGS: 21.8S, 169.3E
		FN	eL	N_1	14 40.1	15		H 14 27 02.6, h 64 km
			M	N_1	42.2	13		
	21	M	iP	Z	07 40 31.5	½	-	Dilatation
		FN	eL	N_1	56.1	13		USCGS: 7.7S, 146.7E
								H 07 33 34.4, h 25 km
5	21	T	iP	Z	20 33 21.5	1	-	Dilatation
		M	iP	Z	20 33 25.5	1	-	Dilatation
		FN	e(P)	N_S	20 33 32.0	1		USCGS: 7.6S, 110.0E
								H 20 25 00.9, h 163 km
6	23	T	iP	Z	10 15 24.5	½	-	Dilatation
		M	eP	Z	10 15 25.5	1		
		FN	eP	Z	10 15 28.5	½		USCGS: 18.5N, 145.2E
			iP	N_S	15 28.5	½	+	H 10 05 35.4, h 256 km
7	23	FN	eP	N_S	13 00 25.5	½		H 12 57 28
			eS	N_S	02 43.5	¼		△ 12°.4
			eT	N_S	12 43.5	¼		
8	25	FN	eP	Z	10 30 00.5	1/5		
			iP	N_S	30 00.5	¼	+	
			eS	N_S	31 30.5	1/5		
			eS	Z	31 31.0	1/6		
		M	i(P)	Z	10 30 07.0	½	-	
		T	iP	Z	10 30 11.0	¾	+	Compression
9	25	T	eP	Z	16 57 15.0	1½		USCGS: 21.7N, 143.1E
		FN	eP	Z	16 57 19.0	1¼		H 16 46 32.9, h 13 km
0	26	M	iP	Z	07 08 52.0	¾	+	Compression
		T	(eP)	Z	07 08 58.0	¾		
		FN	eL	N_1	07 15.5	17		USCGS: 21.3S, 170.1E
			eL	E	17.9	12		H 07 02 57.7, h 89 km
			M	N_1	19.2	13		
1	27	T	iP	Z	07 16 07.5	1	+	Compression
			iPcP	Z	16 11.5	1½	+	
		M	iP	Z	07 16 10.0	1	+	Compression
			iPcP	Z	16 14.0	1½	+	
		FN	e	N_S	07 16 15.5	1		USCGS: 27.8N, 99.4E
			iS	E	26 35	7	-	H 07 03 42.2, h 33 km
			eS	N_1	26 35.5	12		
			eL	E	41.7			
			eL	N_1	43.6	34		
2	28	M	e	Z	03 08 10.5	½		

International Seismological Centre

.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
3	June 29	M	eP	Z	09 29 31.5	1		H 09 22 59
		T	eP	Z	09 29 31.5	1		△ 33°.3, h 0.00
		FN	eP	E	09 29 36	1		
			eP	N_s	29 37.5	1		USCGS: 13.8S, 166.0E
			eS	N_l	34 53.0	16		H 09 22 55.8, h 37 km
			i(sS)	E	35 08	7	-	
			eL	N_l	37.3	23		
			eL	E	37.7	22		
			M	N_l	42.2	14		
			M	E	47.4	12		
4	29	M	iP	Z	10 29 56.5	1	-	Dilatation
		FN	eP	Z	10 29 57.0	$\frac{3}{4}$		
			eP	N_s	29 57.5	$\frac{3}{4}$		USCGS: 22.6S, 179.1E
			eS	N_l	34 27.0	12		H 10 24 07.3, h 654 km

Seismograms read by
Lesley Read

International Seismological Centre

JUL 1961

JOINT DIRECTORS

Professor S. Warren Carey
Professor Gordon H. Newstead

Box 252c, G.P.O.,
Hobart, Tasmania.

International Seismological Centre

TASMANIA UNIVERSITY RADIO-TELEMETERED SEISMIC NET

Station	Co-ordinates		Altitudes (metres)	Foundations
Fort Nelson (FN)	42°55'35.39"S	147°21'13.02"E	184.1	Dolerite
Tarraleah (T)	42°18'16.34"S	146°27'03.51"E	579.1	Basalt
Moorlands (M)	42°26'33.31"S	147°11'29.26"E	324.6	Top contact of dolerite sill
Savannah (S)	41°43'17.59"S	147°11'22.41"E	179.8	Dolerite

Inter-station	distances (metres)	Bearings	Back Bearings
FN – T	101285	312°42'15"	133°18'55"
FN – M	55375	346°03'28"	166°10'04"
FN – S	134526	354°10'30"	174°17'08"
T – M	62891	104°21'43"	283°51'46"
T – S	89086	43°27'24"	223°07'44"
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TIME

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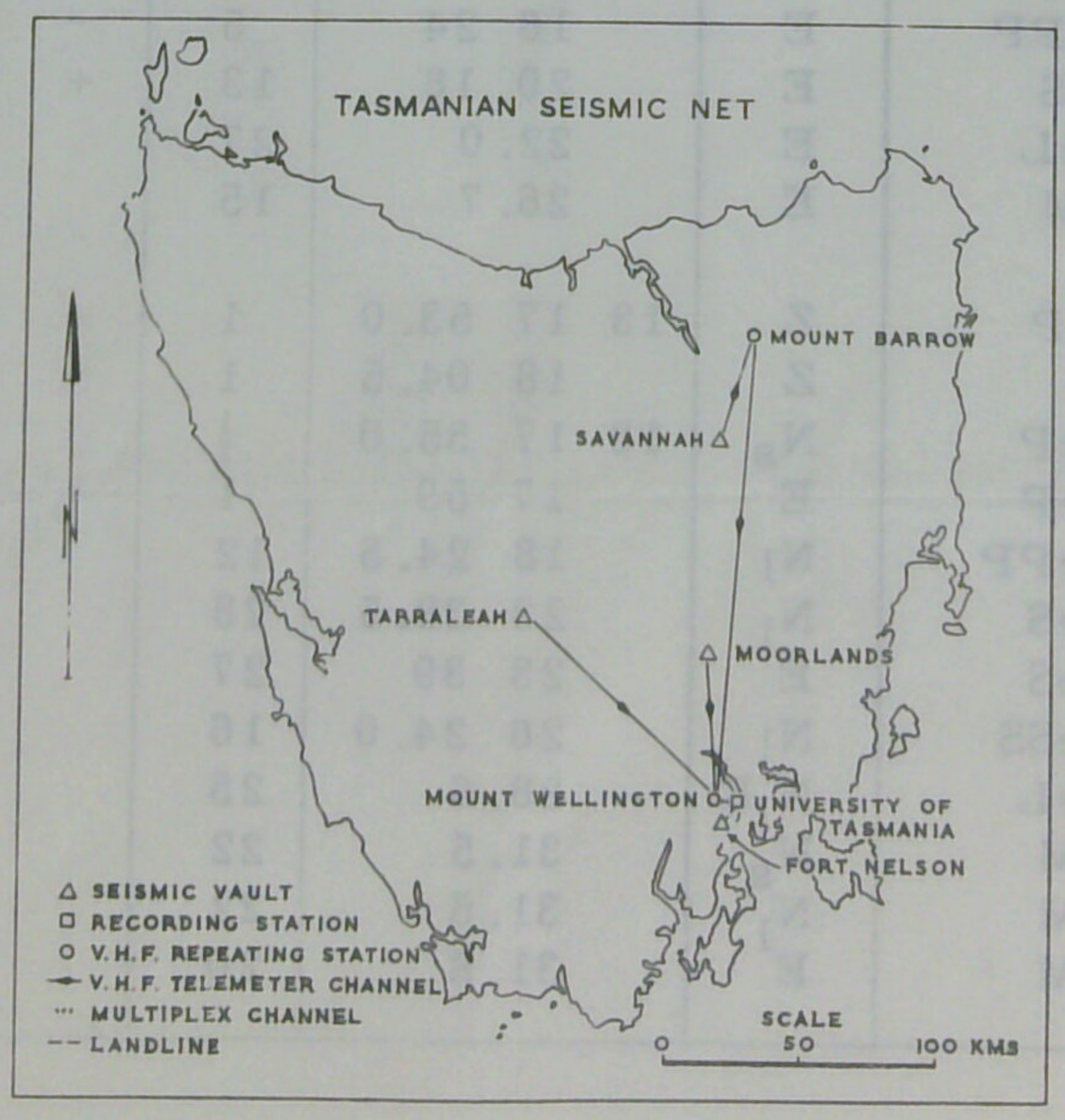

Bulletin overleaf

International Seismological Centre

PROVISIONAL SEISMOLOGICAL BULLETIN

July, 1961

Instruments:

FN Sprengnether (Series H) EW, Pendulum 15.3 sec., galvanometer $6\frac{3}{4}$ sec.
FN Newstead-Watt horizontal NS, short and long periods (operating intermittently)
FN Willmore short period vertical (operating intermittently)
M Willmore short period vertical " "
T Willmore short period vertical " "

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
325	July 4	FN	eT	N_s	08 41 42.0	$\frac{1}{4}$		USCGS: 43.2S, 168.8E
		M	eT	Z	08 42 05.0	$\frac{1}{2}$		H 08 23 43.6, h 213 km
326	4	M	eP	Z	19 21 12.5	1		USCGS: 55.8S, 147.4E
		FN	eL	E	19 23.9	12		H 19 17 46.7, h 39 km
			eL	N_l	24.0	16		
			M	E^l	24.7	10		
			M	N_l	25.0	11		
327	5	FN	eP	N_s	02 32 34.0	$1\frac{1}{2}$		USCGS: 58.2S, 150.4E
			eL	N_l	36.2	23		H 02 28 38.2, h 25 km
		M	eP	Z	02 32 39.5	1		
		T	eP	Z	02 32 41.0	$\frac{1}{2}$		
328	6	FN	eP	E	22 15 37.	3		H 22 09 46
			epP	E	15 48	2		Δ 28°.1, h 0.00
			iPP	E	16 24	5	-	
			iS	E	20 18	13	+	USCGS: 20.0S, 169.0E
			eL	E	22.0	27		H 22 09 31.4, h 47 km
			M	E	26.7	15		
329	7	M	iP	Z	13 17 53.0	1	+	Compression
			i	Z	18 04.5	1	-	
		FN	eP	N_s	13 17 55.0	$\frac{1}{2}$		H 13 10 45
			eP	E	17 59	1		Δ 37°.2
			ePP	N_l	18 24.5	12		
			eS	N_l	23 38.5	28		USCGS: 5.7S, 149.7E
			eS	E	23 39	27		H 13 10 43.8, h 57 km
			eSS	N_l	26 24.0	16		
			eL	N_lE	28.6	25		
			M	N_s	31.5	22		
			M	N_l	31.6	22		
			M	E	31.8	20		

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
330	July 8	FN	eS	N_1	02 46 15.5	6		USCGS: 20.0S, 168.8E
			eL	N_1	48.3	19		H 02 35 20.1, h 52 km
			eL	E	49.0	34		
			M	N_1	50.3	15		
			M	N_s	51.4	13		
			M	E	52.5	16		
331	8	FN	eS	N_1	15 45 32.5	(10)		USCGS: 20.1S, 169.8E
			e(L)	N_1	46 49.5	15		H 15 34 38.5, h 44 km
			iL	E	48.8	23	-	
			M	N_1	49.5	16		
			M	N_s	49.8	16		
			M	E	51.6	21		
332	8	FN	eL	N_1	21 26.8	23		USCGS: 20.2S, 169.0E
			M	N_1	28.7	14		H 21 13 59.4, h 56 km
333	8	FN	eL	N_1	22 01.8	16		USCGS: 20.2S, 169.0E
			M	N_1	03.7	17		H 21 48 46.2, h 68 km
334	11	FN	eL	E	10 07.9	27		USCGS: 8.3N, 93.3E
								H 09 31 57.2, h 163 km
335	12	T	eP	Z	04 56 06.5	$\frac{1}{2}$		
		M	iP	Z	04 56 09.0	1	-	Dilatation
		FN	eP	Z	04 56 12.5	$\frac{3}{4}$		USCGS: 3.3N, 127.9E
								H 04 47 29.0, h 92 km
336	12	FN	eL	N_1	14 51.1	19		USCGS: 22.8S, 171.3E
								H 14 36 57.4, h 65 km
337	13	M	iP	Z	10 39 08.0	1	-	Dilatation
		T	eP	Z	10 39 09.0	$\frac{3}{4}$		USCGS: 5.5S, 150.8E
		FN	eP	N_s	10 39 13.0	$\frac{1}{2}$		H 10 31 55.6, h 25 km
338	15	FN	eL	N_1	08 05.1	10		USCGS: 57.8S, 148.5E
								H 07 57 20.5, h 60 km
339	16	FN	eL	N_1	14 14.2	17		USCGS: 22.7S, 171.2E
			eL	E	15.5	21		H 14 01 38.7, h 56 km
			M	N_1	16.1	13		
			M	E	17.3	20		
340	18	FN	eP	N_s	14 15 12.0	$2\frac{1}{2}$		H 14 03 33
			iP	E	15 13	1	+	$\triangle$ 74°.8
			eP	N_1	15 13.0	$2\frac{1}{2}$		
			i	E	16 52	7	+	USCGS: 29.4N, 131.6E
			e	E	21 21	12		H 14 03 36.5, h 21 km
			e(PS)	N_1	25 43.5	10		
			eS	E	24 45	14		
			eSS	E	29 59	27		
			eSSS	N_1	33 02.5	15		
			e	E	33 48	36		
			eL	E	36.5	39		
			M	N_1	45.4	21		
			M	E	45.7	20		

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No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
341	July 19	T	eP	Z	05 31 10.5	½		Local
			eS	Z	31 27.0	1/3		
		M	eP	Z	05 31 17.5	½		
			iS	Z	31 36.0	¼	-	
342	21	M	iP	Z	13 13 19.0	1	+	Compression
			e	Z	13 42.0	1		USCGS: 19.4S, 169.2E
								H 13 07 25.4, h 167 km
343	22	M	eP	Z	14 00 09.0	1½		
		FN	eL	N_1	14 03.4	13		
344	22	FN	iP	E	18 15 21	2	+	USCGS: 54.0S, 141.2E
			iP	Ns	15 21.5	1	-	H 18 12 31.1, h 84 km
			eP	N_1	15 21.5	5		
			eL	N_sN_1E	18.1	13		
			M	N_1	18.6	9		
			M	E	19.1	9		
		M	iP	Z	18 15 27.0	1½	-	Dilatation
345	23	M	iP	Z	14 09 53.0	1	-	Dilatation
			ipP	Z	10 03.5	1	-	
			isP	Z	10 08.0	1½	-	USCGS: 18.5S, 168.2E
		FN	e(L)	E	14 16 17	25		H 14 03 39.8, h 44 km
			eL	N_1	16.8	20		
			eL	E	18.1	24		
			M	N_1	18.9	18		
			M	E	21.8	15		
346	23	M	eP	Z	15 36 34.0	1		USCGS: 18.5S, 168.0E
			i	Z	36 42.0	1	+	H 15 30 22.8, h 107 km
			ipP	Z	36 58.5	1	-	
		FN	eL	E	15 43.5	23		
			eL	N_1	44.5	19		
			M	E	45.8	23		
			M	N_1	47.8	14		
347	23	M	iP	Z	21 57 18.5	1	+	Compression
			eL_R	Z	22 06 01.0	20		
		FN	e(P)	E	21 57 24	5	-	USCGS: 18.3S, 168.3E
			e	N_1	57 26.5	22		H 21 51 07.5, h 44 km
			i(pP)	E	57 33	20	+	
			i	N_1	22 01 04.0	10	-	
			eS	N_s	02 14.0	12		
			eS	N_1	02 14.0	15		
			iS	E	02 14	13	-	
			iSS	E	03 37	19	+	
			e	N_1	03 51.0	35		
			i	E	04 21	24	-	
			iL!	E	05.7	24	+	
			M	E	06.1	24		
			e(W_2)	E	24 43.2	21		
		T	eP	Z	21 57 25.5	1		

No.	Date 1961	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
348	July 25	M	iP	Z	08 56 54.0	1	-	Dilatation
			i	Z	57 12.5	1	+	
		T	iP	Z	08 56 56.5	1	-	Dilatation
								USCGS: 18.4S, 167.7E
								H 08 50 38.5, h 25 km
349	25	M	eP	Z	18 48 03.5	$\frac{3}{4}$		USCGS: 0.0, 124.7E
			i	Z	48 09.0	1	+	H 18 39 24.1, h 43 km
			i	Z	48 38.0	1	+	
		T	e	Z	18 48 07.0	$\frac{3}{4}$		
350	26	FN	eP	Z	09 24 02.0	$\frac{3}{4}$		
			esP	Z	24 35.0	1		
		M	iP	Z	09 24 03.0	$\frac{3}{4}$	+	Compression
			isP	Z	24 35.5	1	+	
		T	eP	Z	09 24 08.5	$\frac{3}{4}$		USCGS: 37.1S, 177.3E
			iPP	Z	24 46.5	$\frac{3}{4}$	+	H 09 18 59.9, h 100 km
351	28	M	eP	Z	06 17 43.0	1		USCGS: 18.6S, 167.7E
		T	eP	Z	06 17 46.5	1		H 06 11 38.7, h 41 km.
		FN	eL	N_1	06 26.4	18		
			eL	E	27.1	17		
			M	N_1	29.2	12		
			M	E	29.6	12		
352	28	M	iP	Z	17 22 53.5	$\frac{3}{4}$	-	Dilatation
		FN	iP	Z	17 22 55.0	1	-	Dilatation
		T	eP	Z	17 22 57.0	$\frac{1}{2}$		USCGS: 20.5S, 169.9E
								H 17 17 07.8, h 147 km
353	29	FN	iP	Z	10 37 39.0	$\frac{1}{2}$	-	Local
354	29	FN	eP	Z	16 34 13.5	$\frac{3}{4}$		USCGS: 23.9S, 176.1W
			ePcP	Z	36 44.0	$\frac{3}{4}$		H 16 17 19.0, h 23 km
			eL	E	46.4	16		
		M	e	Z	16 34 22.0	1		
			ePcP	Z	36 44.0	$\frac{3}{4}$		
355	31	T	iP	Z	00 24 33.0	$\frac{3}{4}$	+	Compression
		M	iP	Z	00 24 36.5	1	+	Compression
		FN	iP	Z	00 24 37.0	$\frac{3}{4}$	-	USCGS: 5.3S, 107.2E
								H 00 15 55.3, h 244 km
356	31	FN	iP	Z	08 34 42.0	$\frac{1}{4}$	+	Local

Seismograms read by Lesley Read.

JAN

JOINT DIRECTORS

Professor S. Warren Carey
Professor Gordon H. Newstead

Box 252c, G.P.O.,
Hobart, Tasmania.

International Seismological Centre

TASMANIA UNIVERSITY RADIO-TELEMETERED SEISMIC NET

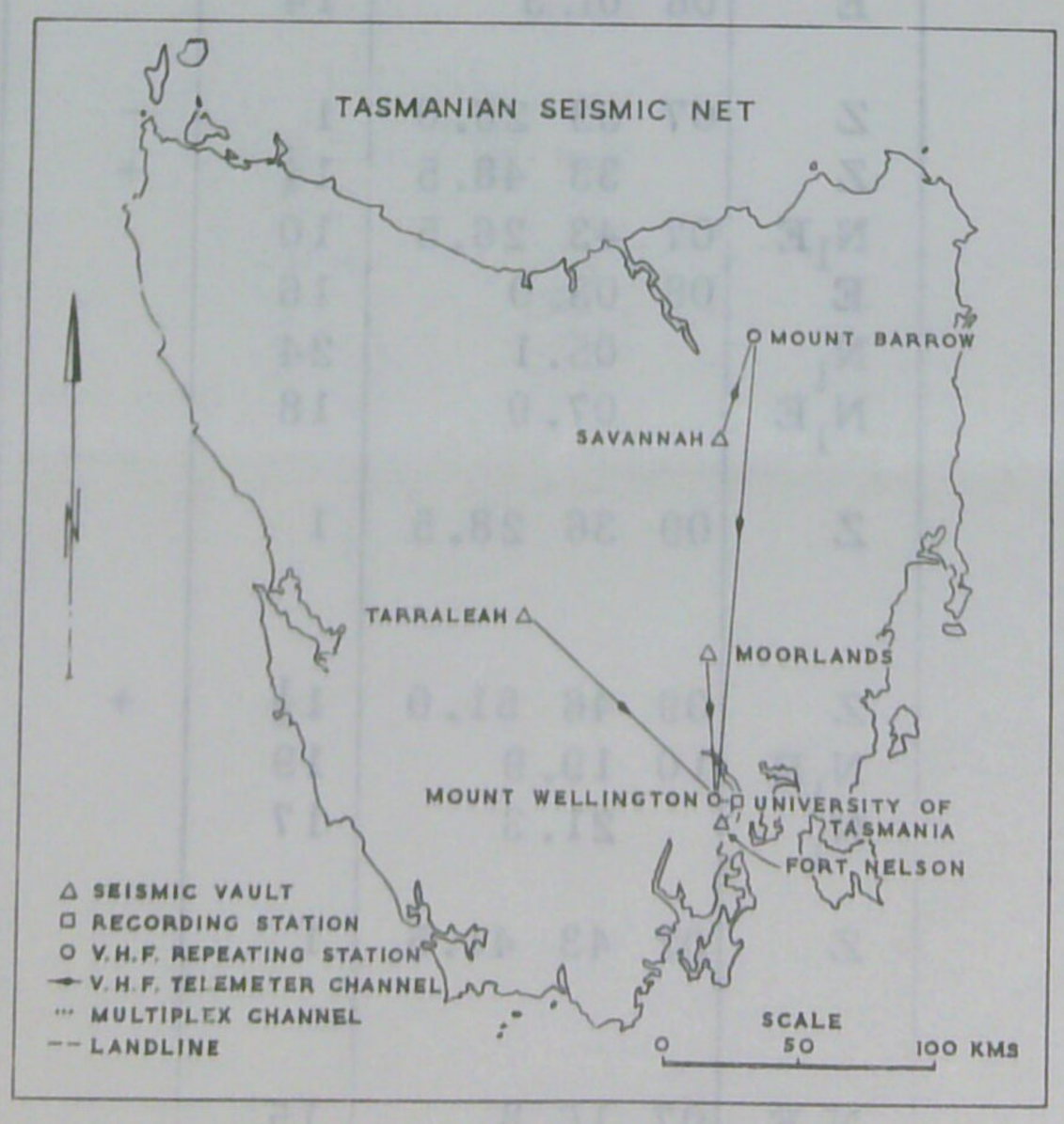
Station Co-ordinates			Altitudes (metres)	Foundations
Fort Nelson (FN)	42°55'35.39"S	147°21'13.02"E	184.1	Dolerite
Tarraleah (T)	42°18'16.34"S	146°27'03.51"E	579.1	Basalt
Moorlands (M)	42°26'33.31"S	147°11'29.26"E	324.6	Top contact of dolerite sill
Savannah (S)	41°43'17.59"S	147°11'22.41"E	179.8	Dolerite

Inter-station distances (metres)		Bearings	Back Bearings
FN – T	101285	312 ~~305~~°42'15"	133°18'55"
FN – M	55375	346°03'28"	166°10'04"
FN – S	134526	354°10'30"	174°17'08"
T – M	62891	104°21'43"	283°51'46"
T – S	89086	43°27'24"	223°07'44"
M – S	80089	359°53'12"	179°53'17"

TIME

All stations are radio-telemetered to record on a single multipen recorder (90 mm. per min., response to 50 cycles per sec.) timed by a Rohdë & Schwartz quartz crystal clock. The system is also recorded in parallel on multi-channel magnetic tape.

Seismometer installations not yet permanent, current installation is given overleaf.



Bulletin overleaf.

PROVISIONAL SEISMOLOGICAL BULLETIN

August, 1961

Instruments :

FN	Sprengnether (Series H) EW, Pendulum 15.3 sec., galvanometer $6\frac{3}{4}$ sec.
FN	Newstead-Watt horizontal NS, short and long periods (operating intermittently)
FN	Willmore short period vertical (operating intermittently)
M	Willmore short period vertical " "
T	Willmore short period vertical " "

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No.	Date'61	Stn.	Phase	Cpt.	Time(GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
357	Aug. 1	M	iP	Z	01 24 19.5	1	-	Dilatation
			epP	Z	24 27.5	1		USCGS: 14.2 S, 166.7 E
								H 01 17 44.7, h 26 km
358	1	M	iP	Z	05 46 41.5	1	+	Compression
			ePPP	Z	48 20.5	1		
			iS	Z	52 15.5	1	-	
			i(sS)	Z	52 41.0	1	-	
		T	iP	Z	05 46 42.5	$1\frac{1}{4}$	+	Compression
			eS	Z	52 17.0	1		
		FN	iP	Z	05 46 45.5	1	-	Dilatation
			iP	N_SE	46 46.0	3	+	
			i	N_SE	46 51.5	$1\frac{1}{2}$	+	H 05 39 48
			i	Z	46 53.0	$\frac{1}{4}$	-	$\triangle$ 35°.7
			iPcP	E	49 17	4	-	
			i	E	50 20	3	+	USCGS: 9.8 S, 160.5 E
			iS	N_SN_1	52 19.0	4,17	-	H 05 39 53.2, h 50 km
			iS	E	52 22	8	+	
			eL	N_1E	54.4	15		
			M	N_1	56.3	19		
			M	E	06 01.5	14		
359	1	M	iP	Z	07 33 26.0	1	-	Dilatation
			i	Z	33 48.5	$1\frac{1}{4}$	+	
		FN	eS	N_1E	07 43 26.5	10		USCGS: 56.8 S, 25.1 W
			eL	E	08 03.0	16		H 07 21 12.3, h 44 km
			eL	N_1	05.1	24		
			M	N_1E	07.9	18		
360	1	M	eP	Z	09 36 28.5	1		USCGS: 56.6 S, 24.0 W
								H 09 24 22.4, h 61 km
361	1	M	iP	Z	09 46 51.0	$1\frac{1}{2}$	+	Compression
		FN	eL	N_1E	10 19.9	19		USCGS: 57.1 S, 26.1 W
			M	N_1	21.3	17		H 09 34 40.7, h 31 km
362	2	M	eP	Z	02 43 41.5	1		USCGS: 56.7 S, 24.8 W
								H 02 31 24.8, h 25 km
363	3	FN	eL	N_1E	07 16.8	15		USCGS: 3.5 S, 130.8 E
								H 06 51 44.1, h 22 km
364	4	M	iP	Z	18 25 19.5	$\frac{3}{4}$	-	Dilatation
			ipP	Z	25 44.0	1	-	USCGS: 19.9 S, 169.7 E
								H 18 19 22.8, h 119 km

No.	Date '61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
365	Aug. 4	M	iP	Z	23 38 13.5	$\frac{1}{2}$	+	Compression
			ipP	Z	40 50.5	$\frac{3}{4}$	-	
		T	eP	Z	23 38 17.5	$\frac{1}{2}$		USCGS:25.4S, 179.7W
			epP	Z	38 52.0	$\frac{1}{2}$		H 23 32 24.9, h 495 km
366	6	M	eP	Z	10 42 52.5	1		USCGS: 2.7 S, 122.0 E
			epP	Z	43 06.5	1		H 10 34 33.4, h 69 km
367	7	T	eP	Z	04 30 39.5	$\frac{3}{4}$		USCGS: 2.7 S, 121.6 E
			i	Z	30 43.0	$\frac{3}{4}$		H 04 22 20.5, h 18 km
		M	eP	Z	04 30 44.5	1		
			i	Z	30 47.0	1	-	
		FN	eSS	N_1	04 41 02.0	10		
			i	E	41 12	9	+	
			eL	E	45.3	30		
			eL	N_1	46.4	19		
			M	E	48.1	24		
			M	N_1	51.5	16		
368	7	M	iP	Z	06 55 14.5	$\frac{1}{2}$	-	Dilatation
			i	Z	55 33.0	$\frac{3}{4}$		
369	7	M	eP	Z	12 29 02.0	$1\frac{1}{4}$		USCGS: 28.1 S, 176.5W
		FN	eL	E	12 38.5	21		H 12 22 23.3, h 39 km
			eL	N_1	38.8	15		
			M	N_1	39.9	15		
			M	E	45.3	16		
370	7	FN	eP	N_s	16 16 13.0	$1\frac{1}{4}$		H 16 11 29
			eP	E	16 15	2		$\triangle 21^{o}.1$
			eS	E	20 01	11		
			eL	N_1	20.6	15		USCGS: 61.1 S, 160.4 E
			M	N_1	21.7	14		H 16 11 41.4, h 49 km
			M	E	22.6	9		
		M	iP	Z	16 16 17.5	$1\frac{1}{2}$	+	Compression
			i	Z	16 57.5	$1\frac{1}{4}$	-	
		T	iP	Z	16 16 22.0	$1\frac{1}{4}$	+	Compression
371	7	M	iP	Z	17 04 15.5	1	-	Dilatation
			iPcP	Z	07 03.5	$\frac{3}{4}$	+	USCGS: 27.5 S, 177.1W
								H 16 57 50.0, h 60 km
372	8	M	i	Z	00 29 54.5	1	+	USCGS: 28.1 S, 176.5W
		FN	eL	N_1	00 35.8	14		H 00 18 52.3, h 51 km
			eL	E	37.5	18		
			M	N_1	39.7	12		
			M	E	42.2	19		
373	8	FN	eL	E	07 38.3	14		USCGS: 8.1 S, 156.6 E
			eL	N_1	38.8	11		H 07 18 34.9, h 61 km
374	8	M	eP	Z	08 01 57.0	1		USCGS: 24.5 S, 116.2 W
								H 07 49 55.3, h 38 km

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No.	Date '61	Stn.	Phase	Cpt.	Time (GMT) h. m. s.	Per. s.	Amp.	Remarks
375	Aug. 8	FN	eSS	E	12 51 01	14		USCGS: 50.9 N, 176.7W
			e	N_1	51 16.5	15		H 12 18 18.9, h 24 km
			eL	E	13 07.9	23		
376	9	FN	iP	Z	10 56 32.5	¾	-	Dilatation
		M	i	Z	10 56 46.0	1	+	
377	9	M	iP	Z	16 08 38.5	2	-	Dilatation
			ipP	Z	08 51.0	¾	-	
			isP	Z	08 56.5	¾	-	USCGS: 19.1 S, 168.7 E
			iPP	Z	09 34.0	1	-	H 16 02 36.1, h 69 km
			iPcP	Z	11 43.5	¾	-	
			e	Z	11 56.0	1½		
		FN	iP	Z	16 08 42.0	1	+	Compression
			iP	E	08 42	2	-	
			i	Z	08 53.0	¾	-	
			iPcP	Z	11 43.0	¾	+	
			e	Z	11 59.0	¾		
			eL	N_1E	16.4	23		
			M	E	18.1	19		
			M	N_1	18.9	14		
		T	iP	Z	16 08 43.5	1	-	Dilatation
			ePcP	Z	11 44.0	¾		
378	10	FN	eP	Z	01 49 31.0	¾		USCGS: 30.4 S, 179.8W H 01 43 46.2, h 303 km
379	10	FN	iP	Z	06 43 38.0	½	+	Compression
			i	N_S	43 43.5	½	-	USCGS: 20.8 S, 178.0W
		T	eP	Z	06 43 42.0	¾		H 06 37 04.7, h 377 km
380	10	FN	iP	Z	17 29 21.0	1	-	Dilatation USCGS: 9.6 S, 159.7 E H 17 22 31.6, h 44 km
381	11	FN	eP	Z	04 39 18.5	¾		USCGS: 32.5 N, 131.3 E H 04 27 23.3, h 25 km
382	11	FN	iP	Z	06 20 13.0	¾	+	Compression
			(esP)	Z	20 29.0	½		USCGS: 32.6 N, 131.4 E H 06 08 18.2, h 25 km
383	11	M	iP	Z	10 31 05.0	1	+	Compression
			i	Z	31 26.5	1	-	
			ePcP	Z	34 15.5	¾		
		FN	iP	Z	10 31 06.5	¾	+	Compression
			e	Z	31 26.0	1		USCGS: 18.5 S, 168.2 E
			ePcP	Z	34 15.5	¾		H 10 24 58.9, h 25 km
384	11	M	eP	Z	11 13 02.5	½		
		FN	iP	Z	11 13 05.0	½	+	Compression
			epP	Z	13 42.0	½		
			iPcP	Z	14 32.5	¾	-	USCGS: 0.2 N, 124.0 E
			eScP	Z	18 13.0	¾		H 11 04 39.1, h 20 km

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No.	Date '61	Stn.	Phase	Cpt.	Time (GMT) h. m. s.	Per. s.	Amp.	Remarks
385	Aug. 11	T	iP	Z	16 04 07.5	1	+	Compression
			iPcP	Z	04 12.5	¾	+	
		M	iP	Z	16 04 07.5	¾	+	Compression
			iPcP	Z	04 12.5	¾	+	
			e	Z	07 56.0	3		
			e(PPP)	Z	09 40.0	4		
		FN	iP	Z	16 04 09.5	1	+	Compression
			e	N_s	04 13.5	½		
			iPcP	Z	04 14.0	¾	+	H 15 51 31
			iSKS	N_1	14 31.0	9	+	Δ 86°.1
			iS	E	14 39	9	+	
			eScS	N_1	14 49.5	7		USCGS: 42.9 N, 145.1 E
			i(sS)	E	15 06	11	+	H 15 51 35.4, h 71 km
			i	N_1	15 34.5	11	+	
			e(SS)	N_1	19 59.5	17		
			eSS	E	20 16	24		
			eSSS	E	23 55	26		
			eSSS	N_1	24 14.5	21		
			eG	E	26.9	40		
			eL	N_1	28.6	37		
			M	E	35.1	22		
			M	N_1	37.8	25		
			eW_2	N_1E	18 10.7	21		
386	11	T	iP	Z	22 45 40.0	¾	-	Dilatation
			i	Z	45 45.0	1	+	
		M	iP	Z	22 45 43.0	1½	-	Dilatation
			i	Z	45 47.0	1	+	
		FN	iP	Z	22 45 46.0	1½	-	Dilatation
			eS	N_1	52 33.0	13		
			iSS	N_1	56 02.0	11	+	H 22 37 18
			iSS	E	56 07	12	+	Δ 46°.8
			eL	E	23 01.0	30		
			eL	N_1	02.3	25		USCGS: 2.8 S, 122.1 E
			M	E	03.1	24		H 22 37 22.0, h 20 km
			M	N_1	07.7	16		
387	11	T	eP	Z	23 46 24.5	½		
		M	iP	Z	23 46 25.0	¾	-	Dilatation
		FN	iP	Z	23 46 27.0	¾	-	Dilatation
			ipP	Z	46 40.5	½	+	USCGS: 42.8 N, 145.1 E
								H 23 33 51.9, h 72 km
388	13	T	eP	Z	02 40 25.5	½		USCGS: 5.6 S, 130.3 E
		FN	eP	Z	02 40 35.5	½		H 02 32 58.3, h 39 km
			ePP	Z	42 01.0	¾		
389	13	FN	eP	Z	05 16 26.5	½		H 05 13 31
			eP	N_s	16 28.0	½		Δ 12°.4
			iPP	Z	16 36.5	1	-	
			eS	Z	18 54.0	¾		
			eT	Z	29 06.5	½		
			Tmax	Z	29 33.0	½		
			Tmax	N_s	29 41.5	1/3		
		M	eP	Z	05 16 37.5	1		

o.	Date '61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
90	Aug. 13	FN	iP	Z	06 12 23.5	1	-	Dilatation
			ipP	Z	12 34.5	1	-	
			isP	Z	12 40.0	1	-	USCGS: 25.3 N, 121.5 E
		T	e	Z	06 12 30.0	$\frac{3}{4}$		H 06 01 02.0, h 25 km
		M	i	Z	06 12 31.5	1	-	
91	14	FN	iP	Z	00 39 15.0	$\frac{1}{2}$	-	Dilatation
			eP	N_S	39 16.0	$\frac{1}{4}$		
			eT	Z	51 46.5	$\frac{3}{4}$		
			eT	N_S	51 57.5	$\frac{1}{4}$		
			Tmax	N_S	52 22.0	$\frac{1}{4}$		
			Tmax	Z	52 28.0	$\frac{1}{2}$		
92	14	FN	iP	N_SZ	04 57 11.5	1/3	-	Dilatation
93	14	FN	iP	Z	18 57 48.0	1	-	Dilatation
			epP	Z	58 01.0	$\frac{3}{4}$		
			eL	N_1	06.2	20		USCGS: 24.2 S, 175.7 W
			eL	E	08.0	25		H 18 50 50.3, h 21 km
			M	N_1	09.7	15		
			M	E	11.3	18		
		M	iP	Z	18 57 48.0	$1\frac{1}{2}$	-	Dilatation
			ipP	Z	58 01.0	1	+	
		T	iP	Z	18 57 54.0	$\frac{3}{4}$	-	Dilatation
4	14	M	iP	Z	23 34 41.0	1	-	Dilatation
			iPcP	Z	37 51.5	1	-	
		FN	iP	Z	23 34 42.0	$\frac{3}{4}$	-	Dilatation
			i	Z	34 51.5	$\frac{3}{4}$	-	
			eS	E	39 32	6		H 23 28 40
			eS	N_1	39 34.5	10		$\triangle 30^{o}.1$
			e	E	39 45	22		
			e	N_1	40 29.5	15		USCGS: 20.3S, 169.4E
			eL	N_1E	41.4	29		H 23 28 46.5, h 97 km
			M	N_1	42.2	20		
			M	E	45.4	17		
		T	eP	Z	23 34 45.5	$1\frac{1}{2}$		
			ePcP	Z	37 52.0	1		
5	15	M	iP	Z	17 57 52.5	$1\frac{1}{2}$	-	Dilatation
		FN	iP	Z	17 57 54.5	$\frac{3}{4}$	-	Dilatation
		T	eP	Z	17 57 55.0	$\frac{1}{2}$		USCGS: 14.9S, 167.7 E
								H17 51 35.5, h 198 km
6	15	T	iP	Z	19 15 37.0	$1\frac{1}{2}$	-	Dilatation
			iPcP	Z	15 52.5	1	+	
		M	iP	Z	19 15 37.0	$1\frac{1}{2}$	-	Dilatation
			iPcP	Z	15 53.0	1	-	
			i	Z	17 24.5	1	-	
		FN	iP	Z	19 15 40.0	$1\frac{1}{2}$	-	Dilatation
			ePcP	Z	15 55.5	$\frac{3}{4}$		USCGS: 32.8N, 142.4 E
			i	Z	17 36.5	$\frac{3}{4}$		H 19 03 55.7, h 39 km

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No.	Date'61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
97	Aug. 16	FN	iP	Z	01 08 12.0	½	+	Compression
			e	Z	11 07.0	½		
98	16	FN	iP	Z	03 39 52.0	¾	+	Compression
			isP	Z	40 17.5	¾	-	USCGS: 31.8S, 177.9 W
			ePPP	Z	40 59.5	¾		H 03 33 52.6, h 70 km
			ePcP	Z	42 58.5	¾		
		M	iP	Z	03 39 53.0	¾	+	Compression
			e	Z	43 06.0	1		
99	16	FN	(iP)	Z	16 04 58.0	¾	+	USCGS: 33.6 N, 137.2E
								H 15 53 38.6, h 325 km
00	16	FN	eP	Z	19 25 01.5	¾		USCGS: 31.7 S, 178.0W
								H 19 19 01.3, h 51 km
01	16	FN	iP	Z	22 31 56.0	1	-	Dilatation
								USCGS: 11.0 N, 124.8 E
								H 22 22 32.7, h 305 km
02	17	T	eP	Z	21 29 08.0	1¼		
			ipP	Z	29 50.0	¾	+	
			esP	Z	30 10.0	1¼		
		M	iP	Z	21 29 08.5	1½	+	Compression
		FN	iP	Z	21 29 09.5	1½	+	Compression
			e	Z	29 47.5	2		
			ipP	Z	29 52.0	¾	+	USCGS: 46.3 N, 149.3E
			e	N_1	36 31.5	17		H 21 16 30.0, h 186 km
			eSKS	N_1	39 23.5	9		
			iScS	N_1	39 48.5	8		
			eL	N_1	56.1	30		
03	18	FN	iP	Z	11 07 19.5	½	-	Dilatation
			iP	N_sE	07 21.0	1/3	+	
		M	iP	Z	11 07 20.0	1	-	Dilatation
		T	iP	Z	11 07 24.0	½	-	Dilatation
			i	Z	07 38.0	½	+	USCGS: 24.0 S, 179.9W
								H 11 01 26.5, h 519 km
04	19	FN	iPKP	Z	05 27 25.5	½	-	Dilatation
			ePKP	N_s	27 26.5	½		
			eSKP	Z	30 03.0	¾		
			e(PKS)	N_1	30 52.5	22		USCGS: 10.7 S, 71.0W
			eSKS	N_1	33 18.0	8		H 05 09 49.5, h 649 km
			iSKKS	N_1	34 37.0	10	+	
			iSP	N_sN_1	37 25.0	17	-	
			eSP	E	37 27	15		
			iPKKP	Z	37 59.0	1	+	
			ePKKP	Z	38 05.0	¾		
			ePKKS	N_sN_1	41 30.5	16		
			e	Z	41 58.0	1¼		
			iSKKS	N_1	44 27.5	26	+	
			eSKKKS	N_1	47 49.5	17		
			e	N_1	51 30.5	22		

(continued on next page)

International Seismological Centre

No.	Date'61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
404	Aug. 19	M	iPKP	Z	05 27 27.5	1	-	Dilatation
contd)			epPKP	Z	29 55.0	1		
			iSKP	Z	30 06.0	1	-	
			iPKKP	Z	37 58.0	1	+	
			iPKKP	Z	38 04.0	$1\frac{1}{4}$	+	
		T	iP	Z	05 27 28.5	1	-	Dilatation
			iPP	Z	28 47.5	$1\frac{1}{4}$	+	
			ePKKP	Z	37 56.5	$\frac{3}{4}$		
			iPKKP	Z	38 03.5	1	-	
405	19	T	iP	Z	05 45 33.5	1	-	Dilatation
		M	iP	Z	05 45 38.0	1	-	Dilatation
		FN	iP	Z	05 45 38.5	1	-	Dilatation
			e(S)	N_1	55 21.5	16		
			e(SSS)	N_1	06 05 34.5	21		USCGS: 36.0 N, 136.5 E
			eL	N_1	10.3	32		H 05 33 30.6, h 17 km
			M	N_1	19.6	20		
406	20	M	eP	Z	05 10 47.0	$\frac{3}{4}$		USCGS: 17.8 S, 178.8 W
			ipP	Z	12 25.5	1	+	H 05 04 14.3, h 592 km
			i	Z	12 40.0	1	-	
			ePcP	Z	12 52.0	$\frac{3}{4}$		
			eScP	Z	15 49.0	1		
		FN	iP	Z	05 10 48.0	$\frac{3}{4}$	-	Dilatation
			eP	N_s	10 48.5	$\frac{1}{4}$		
			iPcP	Z	12 51.0	$\frac{1}{2}$	+	
			eScP	Z	15 49.5	1		
		T	iP	Z	05 10 52.0	$\frac{3}{4}$	-	Dilatation
			ePcP	Z	12 52.0	$\frac{3}{4}$		
407	20	T	eP	Z	10 27 00.5	$\frac{3}{4}$		
		FN	iP	Z	10 27 03.5	$\frac{3}{4}$	-	Dilatation
			eP	N_s	27 04.0	$\frac{3}{4}$		USCGS: 6.3 S, 155.4 E
			i(pP)	Z	27 13.0	$\frac{3}{4}$	+	H 10 19 56.0, h 72 km
408	21	FN	iP	Z	02 12 47.0	$\frac{1}{2}$	+	Compression
			eP	N_s	12 48.5	$\frac{1}{2}$		USCGS: 22.7 S, 179.2 W
								H 02 06 43.4, h 554 km
409	21	FN	iP	Z	16 20 33.5	1	+	Compression
		M	e	Z	16 20 34.0	$1\frac{1}{4}$		USCGS: 17.8 S, 174.4 W
								H 16 06 55.4, h 74 km
410	21	T	iP	Z	17 13 04.0	1	+	Compression
		M	iP	Z	17 13 04.5	1	+	Compression
		FN	iP	Z	17 13 06.5	$\frac{3}{4}$	+	Compression
								USCGS: 40.9 N, 138.9 E
								H 17 00 37.0, h 49 km
411	22	M	iP	Z	09 06 05.0	$\frac{3}{4}$	+	Compression
		FN	eP	Z	09 06 07.0	1		USCGS: 13.4 S, 166.7 E
								H 08 59 27.9, h 63 km

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No.	Date'61	Stn.	Phase	Cpt.	Time(GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
412	Aug. 24	FN	eP	Z	17 33 42.5	$\frac{3}{4}$		USCGS: 6.0 S, 149.9 E H 17 25 39.1, h 96 km
413	24	M	eP	Z	21 04 28.0	1		
		FN	iP	Z	21 04 28.5	$\frac{3}{4}$	+	Dilatation USCGS: 21.3 S, 173.1 E H 20 58 36.2, h 258 km
414	24	FN	iP	Z	22 53 30.0	$\frac{3}{4}$	-	Dilatation
			e	Z	53 43.0	$\frac{3}{4}$		USCGS: 43.0 N, 145.0 E H 22 40 49.1, h 18 km
415	25	FN	iP	Z	21 34 09.0	$\frac{1}{2}$	+	Compression
			iPcP	Z	35 54.0	$\frac{3}{4}$	-	USCGS: 8.1 S, 122.8 E H 21 26 28.1, h 191 km
416	26	FN	iP	N_sZ	00 40 23.0	$\frac{1}{2}$	+	Compression
417	26	FN	(eP)	Z	02 51 23.5	$\frac{3}{4}$		USCGS: 20.1 S, 168.9 E H 02 45 34.8, h 125 km
418	26	FN	iP	Z	03 58 53.0	$\frac{1}{2}$	-	Dilatation
419	26	M	eP	Z	18 09 09.0	$\frac{3}{4}$		USCGS: 13.9 S, 166.2 E
			i	Z	09 16.0	$\frac{3}{4}$	+	H 18 02 35.9, h 66 km
		FN	iP	Z	18 09 10.5	$\frac{3}{4}$	+	Compression
420	26	FN	iP	Z	18 54 10.0	$\frac{1}{2}$	+	Compression
		M	iP	Z	18 54 12.5	$\frac{3}{4}$	+	Compression
421	26	M	eP	Z	19 00 00.0	1		USCGS: 18.0 N, 146.4 E
		FN	eP	Z	19 00 03.0	1		H 18 49 47.1, h 53 km
			eP	N_s	00 04.5	$\frac{1}{2}$		
422	27	M	eP	Z	16 35 19.5	$1\frac{1}{2}$		USCGS: 46.6 N, 154.1 E
		FN	eP	Z	16 35 22.0	1		H 16 22 08.1, h 31 km
423	27	M	iP	Z	16 57 53.0	1	+	Compression
			i	Z	17 02 12.0	1	-	
		FN	iP	Z	16 57 58.0	1	+	Compression
			eP	N_s	57 59.0	$\frac{3}{4}$		
			eS	E	17 06 08	8		H 16 47 49
			e	E	10 15	41		$\triangle 60^{o}.4$
			(i)	N_l	11 03.5	7		
			eL	N_lE	13.8	46		USCGS: 18.3 N, 146.6 E
		...	M	E	17.1	24		H 16 47 44.8, h 27 km
			M	E	17.4	23		
424	27	M	iP	Z	17 10 42.5	1	-	Dilatation
			ePcP	Z	12 36.0	$1\frac{1}{4}$		
		FN	iP	Z	17 10 45.0	1	-	Dilatation USCGS: 2.2 N, 128.6 E H 17 02 27.2, h 263 km

International Seismological Centre

No.	Date'61	Stn.	Phase	Cpt.	Time(GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
425	Aug. 28	M	iP	Z	07 47 33.0	1	+	Compression
		FN	iP	N_sZ	07 47 35.0	½	-	Dilatation
			iPcP	Z	49 44.5	¾	+	USCGS: 12.7 S, 169.6 E
								H 07 41 24.5, h 662 km
426	28	M	iP	Z	09 50 44.0	1	+	Compression
		FN	iP	Z	09 50 45.0	¾	+	Compression
								USCGS: 18.6 S, 178.0W
								H 09 44 13.5, h 574 km
427	29	FN	iP	Z	17 38 01.0	1	-	Dilatation
								USCGS: 7.0 S, 125.2 E
								H 17 31 04.2, h 551 km
428	29	M	iP	Z	21 40 14.0	1	+	Compression
		FN	iP	Z	21 40 16.5	¾	+	Compression
								USCGS: 15.4 S, 168.1 E
								H 21 33 43.0, h 25 km
429	30	FN	eP	Z	19 12 51.0	½		
			eT	Z	25 50.0	½		
			Tmax	N_s	26 11.5	¼		
			Tmax	Z	26 24.0	½		
430	31	FN	iP	Z	00 29 15.5	½	-	Dilatation
			eL	E	38.4	20		
			eL	N_l	39.2	14		USCGS: 28.1 S, 176.7 W
			M	N_l	40.9	15		H 00 22 47.3, h 56 km
431	31	FN	iPKP	Z	02 06 15.5	½	-	Dilatation
			ePKP	N_s	06 17.5	¾		
			iSKP	Z	08 55.5	¾	-	
			e(SKS)	N_l	12 12.5			USCGS: 10.6 S, 70.9 W
			eSKKS	N_l	13 26.0	12		H 01 48 37.5, h 626 km
			eSP	N_l	16 10.0	20		
			eSP	E	16 25	12		
			eSPP	N_l	17 34.5	14		
			e	N_l	19 18.5	12		
			e	E	20 02	21		
			ePKKS	N_l	20 24.5	20		
			eSKKS	N_l	23 08.0	18		
			eSKKKS	E	26 18	29		
			eSKKKS	N_l	26 23.0	12		
		M	iPKP	Z	02 06 16.5	¾	-	Dilatation
			iSKP	Z	08 57.0	1	-	
			iPKKP	Z	16 44.5	1	+	
432	31	FN	ePKP	Z	02 14 45.5	½		USCGS: 10.4 S, 70.7 W
			i	Z	14 48.5	½	-	H 01 57 08.0, h 629 km
			i	N_s	14 52.0	¾	+	
			eSKS	N_sN_l	20 43.0	8		
			iSKS	E	20 46	8	-	
			iSKKS	N_sN_l	22 00.0	11	-	
			iSKKS	E	22 01	15	+	
			e(S)	E	22 58	13		

(contd. on next page)

International Seismological Centre

No..	Date '61	Stn.	Phase	Cpt.	Time(GMT)	Per.	A_{mp}.	Remarks
					h. m. s.	s.		
432	Aug. 31	FN	eSP	N_s	02 24 49	16		
(contd.)			iSP	N_l	24 50.0	19	+	
			iSP	E	24 51	16	+	
			ePKKP	Z	24 19.5	½		
			ePKKP	N_s	25 21.0	½		
			ePKKS	E	29 00	19		
			iPKKS	N_sN_l	29 01.0	15	+	
			iSS	E	31 33	25	+	
			iSKKS	N_sN_l	31 50.0	24	-	
			eSKKKS	N_l	34 53.5	37		
			e(SKKKS)	E	35 08	60		
			i	N_l	35 45.0	22	-	
			e	N_l	39 09.0	28		
			e	E	42 54	20		
			e	E	46 15	19		
		M	iPKP	Z	02 14 45.5	¾	-	Dilatation
			i	Z	14 49.0	¾	-	
			iSKP	Z	17 30.0	1	+	
			i	Z	19 01.5	1	-	
			ePKKP	Z	25 19.5	¾		
433	31	FN	iP	Z	03 37 25.0	¾	-	Dilatation USCGS: 15.2S, 177.4 W H 03 30 19.6, h 439 km
34	31	FN	eP	Z	21 13 52.5	¾		

Seismograms read by Leslie Read
ey

SEP 1961

JOINT DIRECTORS

Professor S. Warren Carey
Professor Gordon H. Newstead

Box 252c, G.P.O.
Hobart, Tasmania.

MAR 9 - 1962

International Seismological Centre

TASMANIA UNIVERSITY RADIO-TELEMETERED SEISMIC NET

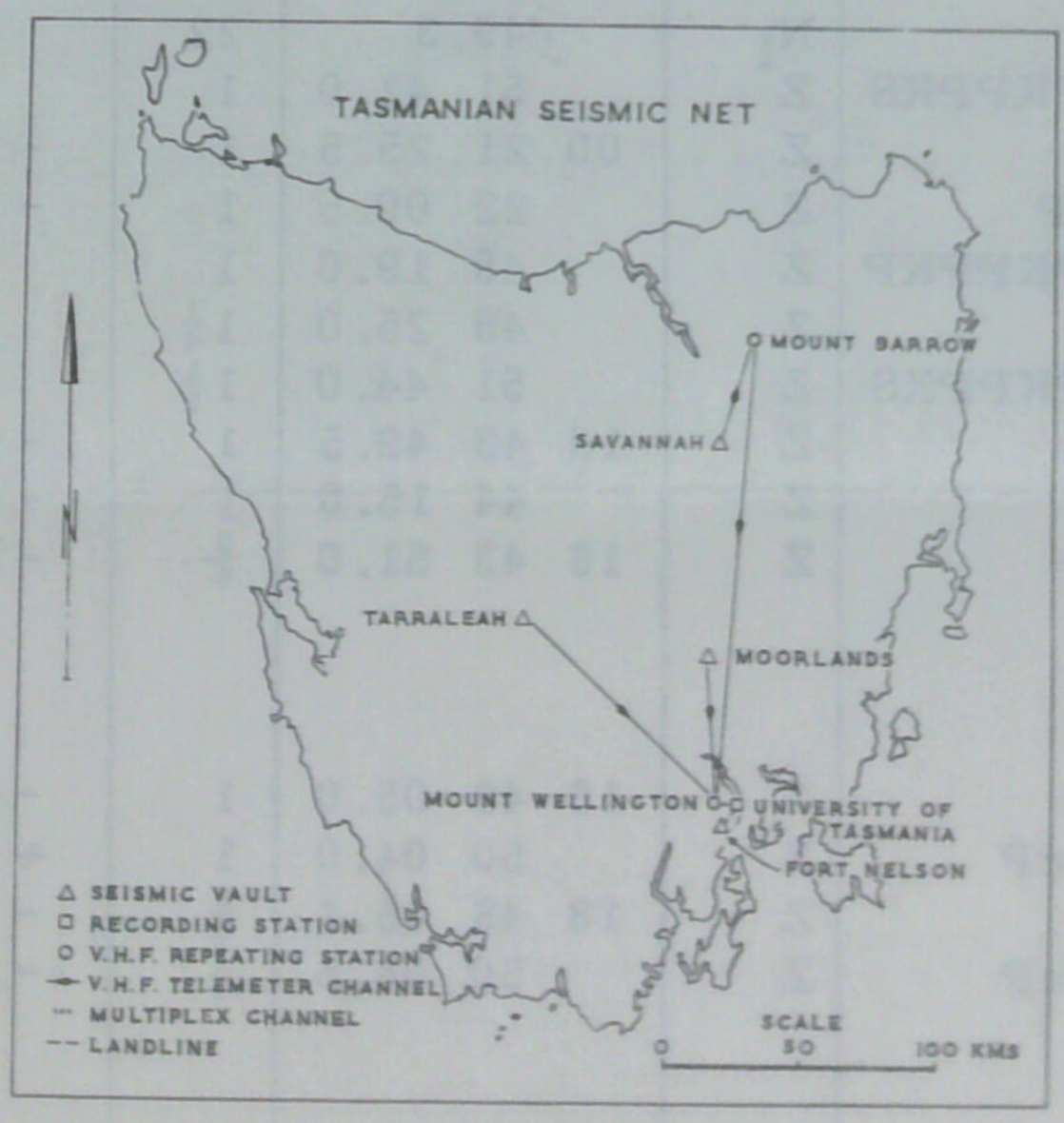
Station Co-ordinates			Altitudes (metres)	Foundations
Fort Nelson (FN)	42°55'35.39"S	147°21'13.02"E	184.1	Dolerite
Tarraleah (T)	42°18'16.34"S	146°27'03.51"E	579.1	Basalt
Moorlands (M)	42°26'33.31"S	147°11'29.26"E	324.6	Top contact of dolerite sill
Savannah (S)	41°43'17.59"S	147°11'22.41"E	179.8	Dolerite

Inter-station distances (metres)		Bearings	Back Bearings
FN – T	101285	~~305~~ 312°42'15"	133°18'55"
FN – M	55375	346°03'28"	166°10'04"
FN – S	134526	354°10'30"	174°17'08"
T – M	62891	104°21'43"	283°51'46"
T – S	89086	43°27'24"	223°07'44"
M – S	80089	359°53'12"	179°53'17"

TIME

All stations are radio-telemetered to record on a single multipen recorder (90 mm. per min., response to 50 cycles per sec.) timed by a Rohdë & Schwartz quartz crystal clock. The system is also recorded in parallel on multi-channel magnetic tape.

Seismometer installations not yet permanent, current installation is given overleaf.



Bulletin overleaf.

International Seismological Centre

PROVISIONAL SEISMOLOGICAL BULLETIN

September, 1961

struments:

N Sprengnether (Series H) EW, Pendulum 15.3 sec., galvanometer $6\frac{3}{4}$ sec.
N Newstead-Watt horizontal NS, short and long periods (operating intermittently)
N Willmore short period vertical (operating intermittently)
M Willmore short period vertical " "
T Willmore short period vertical " "

o.	Date'61	Stn.	Phase	Cpt.	Time (GMT) h. m; s.	Per. s.	Amp.	Remarks
35	Sep. 1	FN	iP	NEZ	00 21 22.5	$\frac{1}{2}$, 5	+	Compression
			epP	N_s	21 57.0	$3\frac{1}{2}$		
			ipP	N_1E	21 59.5	$1\frac{1}{2}$, 8	+	H 00 09 39
			i	E	22 03	2	-	$\Delta 77^{o}.8$
			e	E	24 23	$4\frac{1}{2}$		h 0, 02 ca.
			iS	N_sE	31 01	3	+	
			eS	N_1Z	31 05.0	3, 31		USCGS: 59.3 S,27.3W
			iScS	E	31 30	9	+	H 00 09 34.6, h 131 km.
			i	N_1	31 46.5	20	-	
			isS	E	32 00	11	+	
			iSS	E	36 13	16	+	
			eSSS	E	39 35	19		
			i	E	42 37	15	-	
			eL	E	45.3	36		
			eL	N_1	46.2	55		
			ePKPPKP	Z	48 19.5	$1\frac{1}{2}$		
			M	E	48.9	22		
			M	N_1	49.3	22		
			ePKPPKS	Z	51 42.0	1		
		M	iP	Z	00 21 25.5	1	-	Dilatation
			ipP	Z	22 00.5	1	-	
			ePKPPKP	Z	48 19.0	1		
			e	Z	48 25.0	$1\frac{1}{4}$		
			ePKPPKS	Z	51 44.0	$1\frac{1}{2}$		
6	1	M	iP	Z	16 43 49.5	1	-	Dilatation
			i	Z	44 15.0	1	-	
		FN	iP	Z	16 43 51.0	$\frac{3}{4}$	-	Dilatation
								USCGS:16.4 S, 176.6W
								H 16 36 49.9, h 437 km
37	1	M	iP	Z	18 48 05.0	1	-	Dilatation
			iPcP	Z	50 04.0	1	+	
		FN	iP	Z	18 48 05.5	$\frac{3}{4}$	-	Dilatation
			iPcP	Z	50 04.5	$\frac{1}{2}$	-	USCGS:18.0 S, 178.3 W
								H 18 41 32.4, h 619 km.
38	1	FN	ePS	E	19 21 14			USCGS: 13.5 N, 92.5W
			iSS	E	27 45	7	-	H 18 50 35.4, h 37 km.
			eL	E	48.9	22		

o.	Date'61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
39	Sep. 2	FN	eL	E	01 03.2	21		
			M	E	04.4	12		
40	2	FN	iP	N_sZ	03 49 54.0	1½	+	Compression
			eP	N_lE	49 54.5	2, 7		
			eL	E	52.6	31		USCGS:56.6S, 147.1E
			eL	N_l	53.0	21		H 03 46 36.8, h41 km.
			M	N_lE	54.6	10		
		M	iP	Z	03 50 01.0	1½	+	Compression
			iPP	Z	50 13.5	¼	-	
41	2	FN	eP	Z	06 25 27.0	1		USCGS:28.6S, 176.5W
								H 06 18 59.9, h23 km
42	3	M	e	Z	12 20 09.5	½		
		FN	i	Z	12 20 15.0	½	-	
43	6	FN	iP	N_sZ	01 38 48.5	¼, ½	+	Compression
44	6	M	iP	Z	07 04 42.5	1	+	Compression
		FN	iP	Z	07 04 45.5	¾	+	Compression
								USCGS:6.0S, 149.5 E
								H 06 57 41.9, h61 km.
45	6	FN	eP	Z	08 23 08.0	¾		USCGS:2.8 N, 125.8E
								H 08 14 17.4, h58 km.
46	8	FN	iP	N_sZ	11 38 33.5	¾	-	Dilatation
			iP	N_l	38 35.5	4	+	
			iP	E	38 36	½, 7	-	H 11 26 25
			ipP	E	38 59	1	+	Δ 81°.5, h0.01
			ePP	Z	41 40.0	¾		
			ePP	N_l	41 43.0	11		USCGS:56.1S,27.3W
			i	E	43 15	10	+	H11 26 32.8, h125 km.
			iPPP	Z	43 43.0	½	-	
			e	Z	44 41.5	¾		
			iS	N_sN_l	48 35.5	5, 25	+	
			iS	EZ	48 36	3, 6	-	
			iSKS	N_lE	48 43.0	5, 8	+	
			isS	E	49 17	10	+	
			i	E	49 39	11	-	
			e	Z	49 47.0	3		
			e	N_l	53 55.5	12		
			e	E	57 07	21		
			e	E	59 04	13		
			eL	N_l	12 04.7	53		
			eL	E	05.1	36		
			iPKPPKP	Z	05 14.5	½	+	
			M	E	06.9	20		
			ePKPPKS	Z	08 30.5	4		
			M	N_sN_l	16.1	18		
		M	iP	Z	11 38 38.0	¾	-	Dilatation
			i(PP)	Z	41 49.0	¾	+	
			e	Z	48 42.0	2		
			ePKPPKS	Z	12 08 29.5	4		

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No.	Date'61	Stn.	Phase	Cpt.	Time(GMT) h. m. s.	Per. s.	Amp.	Remarks
447	Sep. 8	FN	iP	Z	12 49 30.5	½	+	Compression USCGS:25.1S, 179.1 W H 12 43 36.2, h450km
448	8	FN	iP	Z	13 18 19.0	¾	-	Dilatation
449	9	FN	iP	Z	08 47 49.0	¾	-	Dilatation
		M	(e)	Z	08 47 53.0	1		
450	9	FN	iP	Z	15 30 49.5	¾	+	Compression
			i(pP)	Z	31 01.0	½	+	USCGS;10.6S, 164.4 E H 15 23 57.8, h79 km
451	10	FN	iP	Z	01 17 46.5	¾	+	Compression
		M	iP	Z	01 17 50.0	¾	+	Compression
452	10	FN	eP	Z	02 57 07.5	¾		USCGS:31.3S, 178.1 W
			epP	Z	57 20.0	¾		H 02 51 05.9, h50 km
453	10	FN	iP	Z	03 10 44.0	¾	+	Compression
			eP	N_S	10 44.5	½		
		M	eP	Z	03 10 46.5	1		
454	10	FN	iP	Z	04 18 11.0	½	-	Dilatation
455	10	M	eP	Z	18 15 54.0	1¼		USCGS:27.6S, 177.8 W
		FN	eP	Z	18 15 54.5	1½		H 18 09 07.3, h152 km
456	10	M	iP	Z	18 22 39.5	1	-	Dilatation
		FN	iP	Z	18 22 40.0	¾	-	Dilatation USCGS:17.8S, 178.5 W H 18 16 07.5, h619 km
457	11	M	eP	Z	11 45 41.5	1		USCGS:1.1N, 120.3 E H 11 36 48.4, h 81 km
458	11	M	iP	Z	20 05 32.0	1	-	Dilatation
		FN	iP	Z	20 05 35.0	1	-	Dilatation
			eL	E	18.7	22		
			M	E	20.0	21		USCGS:4.1 S, 134.3 E
			eL	N_1	20.3	19		H 19 57 58.2, h19 km
			M	N_1	21.0	17		
459	12	FN	iP	Z	00 23 49.5	½	-	Dilatation USCGS:18.1S, 177.9W H 00 17 10.9, h548km
460	12	M	iP	Z	01 20 26.5	1	+	Compression
		FN	iP	Z	01 20 28.5	¾	+	Compression USCGS: 18.3S, 169.1E H 01 14 32.9, h208 km
461	12	FN	iP	Z	07 14 56.5	½	-	Dilatation
			eP	N_S	14 57.0	¼		
		M	eP	Z	07 14 57.0	1		

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o.	Date'61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
2	Sep. 12	FN	eP	Z	19 41 03.5	$1\frac{1}{4}$		USCGS: 59.4S, 29.2W
			eL	N_1	20 12.2			H 19 29 05.2, h25 km.
		M	eP	Z	19 41 07.0	1		
			iPcP	Z	41 15.0	$1\frac{1}{4}$	-	
3	13	M	eP	Z	03 12 53.5	$\frac{3}{4}$		USCGS:5.6S, 144.8 E
		FN	eP	Z	03 12 57.0	$\frac{3}{4}$		H 03 05 35.9, h 100km.
4	13	FN	eP	Z	14 12 52.5	$\frac{1}{2}$		USCGS:9.3S, 112.9 E
			eSS	E	22 41	20		H 14 04 40.1, h93 km
			eL	E	28.5	23		or:10.0S, 113.1 E
								H 14 04 44.0, h104 km
5	13	FN	iP	N_sZ	21 32 03.5	1	-	Dilatation
		M	iP	Z	21 32 07.0	1	-	Dilatation
								USCGS: 41.6S, 73.2 W
								H 21 19 26.2, h 154 km
6	14	FN	iP	Z	18 50 41.5	$\frac{3}{4}$	+	Compression
								USCGS: 23.6S, 179.9W
								H 18 44 47.0, h521 km.
7	15	M	iPKP	Z	02 05 16.5	1	-	Dilatation
		FN	eL	E	02 53.8			USCGS: 35.1N, 33.9E
								H 01 46 08.4, h25km.
8	15	FN	eP	N_sZ	05 12 30.0	$\frac{1}{2}$		
		M	e(P)	Z	05 12 36.0	$\frac{3}{4}$		
9	15	M	iP	Z	10 13 18.5	1	-	Dilatation
		FN	iP	Z	10 13 21.5	1	-	Dilatation
								USCGS:10.1 S, 160.7 E
								H 10 06 36.4, h66 km.
0	15	FN	iP	Z	21 32 10.5	$\frac{3}{4}$	-	Dilatation
								USCGS:10.7S, 112.7E
								H 21 24 08.5, h100 km.
1	16	FN	iP	Z	12 20 31.0	$\frac{1}{2}$	-	Dilatation
								USCGS: 28.3 N, 138.6E
								H 12 09 49.8, h 388 km
2	16	M	i	Z	22 02 49.0	$\frac{3}{4}$	+	
3	17	FN	eP	Z	01 19 38.5	$\frac{1}{2}$		USCGS:4.1 S, 129.7 E
								H 01 11 43.7, h46 km

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o.	Date'61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
74	Sep. 17	FN	iP	Z	08 53 11.0	$\frac{1}{2}$	-	Dilatation
			eP	N_s	53 13.0	$\frac{1}{2}$		
			ipP	Z	53 20.5	$\frac{3}{4}$	-	USCGS:23.9N, 122.2E
		M	e	Z	08 53 12.0	$1\frac{1}{2}$		H 08 41 53.6,h 35 km
75	17	FN	eP	N_sZ	16 23 52.0	$\frac{1}{4}$, $\frac{1}{2}$		H 16 20 51
			eS	Z	26 13.0	$\frac{1}{2}$		Δ 12°.6
			eT	Z	36 29.5	$\frac{1}{2}$		
			eT	N_s	36 33.0	$\frac{1}{4}$		
			Tmax	Z	36 54.0	$\frac{1}{2}$		
			Tmax	Z	36 57.0	$\frac{1}{4}$		
76	17	M	iP	Z	23 29 08.0	1	-	Dilatation
			ePcP	Z	31 32.0	1		
		FN	iP	Z	23 29 11.5	1	-	Dilatation
			iPcP	Z	31 33.5	1	-	
			eL	N_lE	40.2	21		USCGS:5.9S, 147.4 E
			M	N_lE	42.1	23		H 23 22 06.3, h45 km
77	18	FN	iP	N_sZ	00 13 14.5	$\frac{1}{2}$	-	Dilatation
			eT	Z	28 43.5	$\frac{1}{2}$		
			eT	N_s	28 49.0	$\frac{1}{4}$		
			Tmax	N_s	29 31.5	$\frac{1}{4}$		
			Tmax	Z	30 07.0	$\frac{1}{2}$		
		M	eP	Z	00 13 18.5	$\frac{3}{4}$		
			eT	Z	28 49.0	$\frac{1}{2}$		
			Tmax	Z	29 43.0	$\frac{3}{4}$		
78	18	FN	iP	Z	09 20 03.0	$\frac{1}{2}$	-	Dilatation
			i	Z	20 06.0	$\frac{1}{2}$	-	
			eT	Z	34 14.0	$\frac{1}{2}$		
			Tmax	Z	34 27.5	$\frac{1}{2}$		
79	18	M	iP	Z	15 43 50.0	1	-	Dilatation
		FN	iP	Z	15 43 51.5	1	-	Dilatation
			e(SS)	N_l	50.7	21		
			eL	E	52.2	21		USCGS:21.0S, 173.6E
			M	N_l	52.3	15		H 15 37 33.1, h 28 km
			M	E	56.9	12		
80	19	M	ePKP	Z	02 43 23.5	1		USCGS:20.3S, 63.2W
		FN	iPKKP	Z	02 54 33.0	1	-	H 02 25 49.2, h609 km
			eSS	E	59 03	24		
	19	FN	eP	Z	09 27 39.0	$\frac{3}{4}$		USCGS:2.4N, 126.3 E H 09 18 55.0, h84km
	19	M	(iP)	Z	13 52 42.0	1	-	USCGS:1.2N, 125.5E
		FN	(eP)	Z	13 52 47.0	$\frac{3}{4}$		H 13 44 28.2, h54 km
			e	Z	53 27.5	$\frac{3}{4}$		
	19	FN	eP	Z	18 31 35.0	$\frac{3}{4}$		USCGS: 21.6S, 179.4W H 18 25 29.0, h639 km

.	Date'61	Stn.	Phase	Cpt.	Time (GMT) h. m. s.	Per. s.	Amp.	Remarks
4	Sep. 19	FN	iP	Z	21 46 32.5	1	+	Compression
		M	iP	Z	21 46 36.0	1	+	Compression
								USCGS:60.1S, 22.9W
								H 21 34 43.3, h 56 km
5	20	M	iP	Z	19 11 02.0	1¼	-	Dilatation
		FN	iP	Z	19 11 04.0	1	-	Dilatation
			iS	E	17 08	21	-	
			iS	N_1	17 15.5	23	-	USCGS:3.6S, 150.9E
			iSS	E	20 08	13	-	H 19 03 37.1, h30 km
			iSS	N_1	20 14.5	6		
			iScS	E	21 14	4	+	
			eL	N_1E	21.6	33		
			M	N_1	25.2	20		
			M	E	27.6	13		
6	23	FN	eP	Z	08 22 44.0	¾		USCGS:28.5S, 177.2 W
								H 08 16 18.4, h20 km
7	24	FN	(eP)	Z	17 04 55.0	¾		USCGS: 56.5S, 26.2 W
		M	(eP)	Z	17 04 58.0	1		H 16 52 40.8, h 25 km
8	27	M	iP	Z	06 40 39.5	1	+	Compression
			iPcP	Z	42 41.5	1	-	
			iScP	Z	45 39.0	1	-	
		FN	iP	Z	06 40 41.0	½	+	Compression
			iP	N_sE	40 41.0	¼, 3	-	
			iPcP	Z	42 41.0	¾	-	H 06 34 09
			iScP	Z	45 38.5	1	-	△ 37°.9, h0.08
			iS	N_sN_1	45 55.5	8	+	
			eSS	N_1	49 32.0	11		USCGS:17.4S, 178.7 W
			iScS	N_sN_1	49 51.0	4,7	+	H 06 34 03.7, h576 km
9	27	FN	iP	Z	12 19 28.0	1	-	Dilatation
			eS	E	29 15	9		
			eScS	N_1	29 37.5	13		H 12 07 36
			e	E	39 41	24		△ 78°.5, h 0.01
			eL	E	46.2			
			eL	N_1	47.8	24		USCGS: 59.4S, 24.2 W
			M	E	51.0	19		H 12 07 39.2, h 110km
			M	N_1	52.0	18		
		M	iP	Z	12 19 31.0	1	-	Dilatation
0	28	M	iP	Z	01 33 30.0	1	+	Compression
			ipP	Z	33 42.5	1	-	
		FN	iP	Z	01 33 30.5	¾	+	Compression
			eP	N_s	33 32.5	½		
			ipP	Z	33 44.5	¾	-	USCGS: 3.9S, 102.0E
			eL	E	51.6	28		H 01 23 59.6, h 78 km
1	28	FN	iP	Z	03 36 09.0	¾	+	Compression
			eL	E	04 01.0	23		USCGS:30.5N, 141.3E
								H 03 24 43.4, h125 km

International Seismological Centre

MAR 9 - 1962

JOINT DIRECTORS

Professor S. Warren Carey
Professor Gordon H. Newstead

OCT 1961

Box 252c, G.P.O.,
Hobart, Tasmania.

International Seismological Centre

TASMANIA UNIVERSITY RADIO-TELEMETERED SEISMIC NET

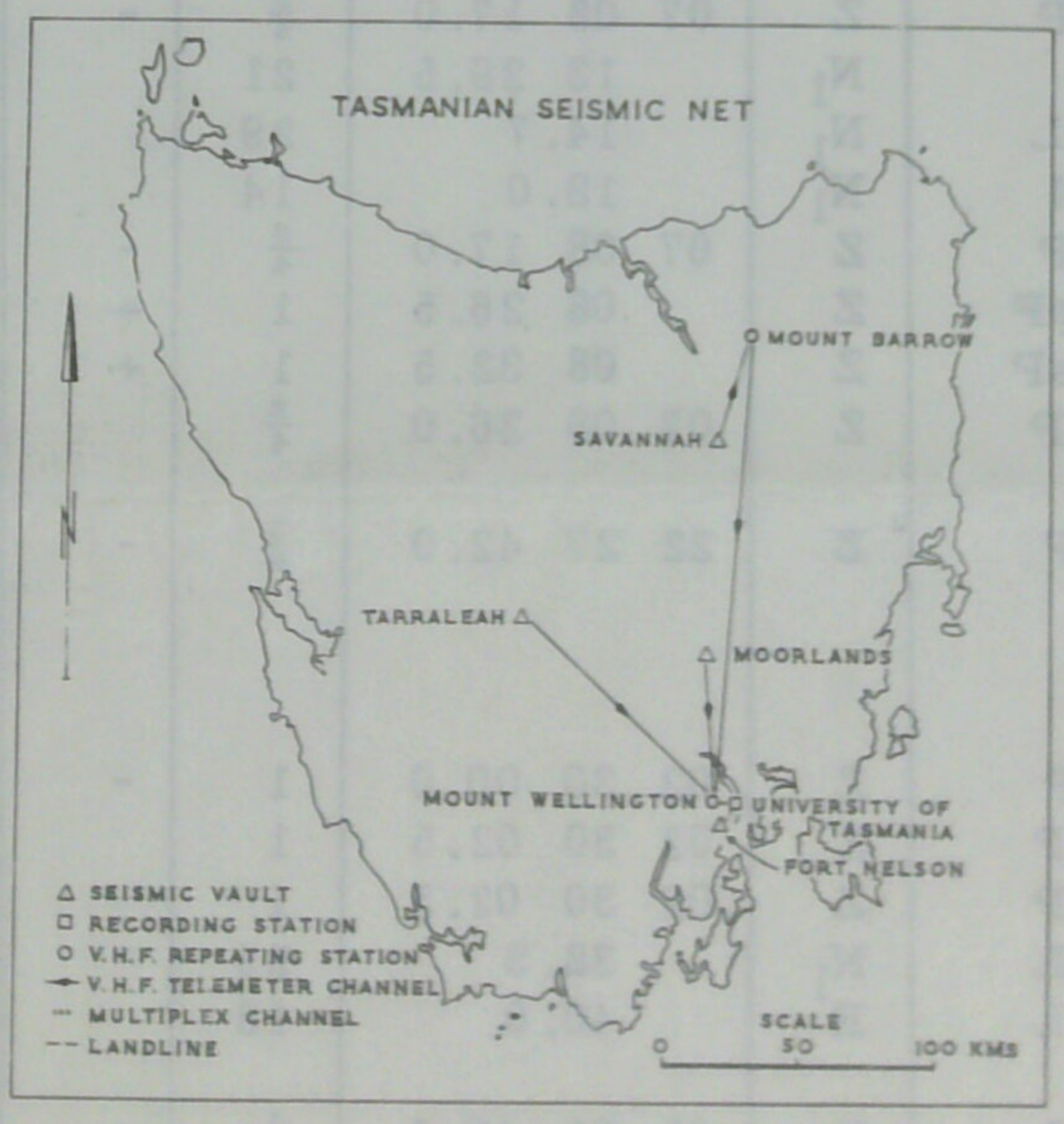
	Station Co-ordinates		Altitudes (metres)	Foundations
Fort Nelson (FN)	42°55'35.39"S	147°21'13.02"E	184.1	Dolerite
Tarraleah (T)	42°18'16.34"S	146°27'03.51"E	579.1	Basalt
Moorlands (M)	42°26'33.31"S	147°11'29.26"E	324.6	Top contact of dolerite sill
Savannah (S)	41°43'17.59"S	147°11'22.41"E	179.8	Dolerite

Inter-station distances (metres)		Bearings	Back Bearings
FN – T	101285	~~305~~ 31– °42'15"	133°18'55"
FN – M	55375	346°03'28"	166°10'04"
FN – S	134526	354°10'30"	174°17'08"
T – M	62891	104°21'43"	283°51'46"
T – S	89086	43°27'24"	223°07'44"
M – S	80089	359°53'12"	179°53'17"

TIME

All stations are radio-telemetered to record on a single multipen recorder (90 mm. per min., response to 50 cycles per sec.) timed by a Rohdë & Schwartz quartz crystal clock. The system is also recorded in parallel on multi-channel magnetic tape.

Seismometer installations not yet permanent, current installation is given overleaf.



Bulletin overleaf.

International Seismological Centre

PROVISIONAL SEISMOLOGICAL BULLETIN

October, 1961

nstruments:

'NT Sprengnether (Series H) EW, pendulum 15.3 sec., galvanometer $6\frac{3}{4}$ sec.
'NT Newstead-Watt horizontal NS, short and long periods.
'NT Willmore short period vertical
MOO Willmore short period vertical
'RR Willmore short period vertical
SAV Willmore short period vertical

No.	Date'61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
93	Oct. 2	FNT	iP	Z	05 59 14.5	1	+	Compression
			iP	E	59 17	3	+	
			ipP	Z	59 22.5	$\frac{3}{4}$	-	USCGS: 33.9 S, 179.6 E
			eL	N_1	06.5	18		H 05 53 37.5, h 30 km
			M	N_1	08.2	13		
			eL	E	08.3	26		
		MOO	iP	Z	05 59 15.5	1	+	Compression
			ipP	Z	59 24.0	1	+	
			isP	Z	59 30.0	1	+	
94	2	FNT	iP	Z	06 13 17.0	$\frac{3}{4}$	+	Compression
			epP	Z	13 24.0	1		
		MOO	eP	Z	06 13 18.0	1		USCGS: 33.8 S, 179.6 E
			epP	Z	13 25.5	1		H 06 07 40.0, h 50 km
95	2	FNT	eP	Z	06 30 22.5	$\frac{1}{2}$		USCGS: 7.6 S, 107.0 E
								H 06 21 32.8, h 85 km
96	2	FNT	iP	Z	07 08 17.0	$\frac{3}{4}$	-	Dilatation
			e	N_1	13 29.5	21		
			eL	N_1	14.7	29		
			M	N_1	18.0	14		
		MOO	iP	Z	07 08 17.0	$\frac{3}{4}$	-	Dilatation
			ipP	Z	08 26.5	1	+	
			isP	Z	08 32.5	1	+	USCGS: 33.8 S, 179.5 E
		TRR	eP	Z	07 08 26.0	$\frac{3}{4}$		H 07 02 40.4, h 57 km
97	3	FNT	iP	Z	22 27 42.0	$\frac{3}{4}$	-	Dilatation
								USCGS: 31.4 S, 179.6 W
								H 22 22 15.6, h 372 km
98	4	MOO	iP	Z	02 30 00.0	1	-	Dilatation
		TRR	eP	Z	02 30 02.5	1		
		FNT	eP	Z	02 30 02.5	1	-	Dilatation
			eL	N_1	38.3	23		USCGS: 13.2 S, 166.5 E
			eL	E	40.0	18		H 02 23 23.5, h 66 km
99	4	FNT	iP	Z	05 02 40.5	$\frac{1}{2}$	-	Dilatation
00	4	FNT	eP	Z	07 14 32.0	1		USCGS: 21.2 S, 177.8 W
								H 07 08 09.2, h 475 km

International Seismological Centre

No.	Date '61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
501	Oct. 5	SAV	eP	Z	18 14 39.0	$\frac{3}{4}$		USCGS: 19.4 S, 169.0 E
		MOO	eP	Z	18 14 44.5	1		H 18 08 43.4, h 58 km
		FNT	eP	Z	18 14 48.5	$\frac{3}{4}$		
502	5	FNT	iP	Z	22 46 25.5	$\frac{3}{4}$	+	Compression
								USCGS: 24.0 N, 121.9 E
								H 22 35 00.8, h 56 km
503	6	SAV	eP	Z	16 39 56.0	$\frac{3}{4}$		
		MOO	eP	Z	16 40 09.0	$\frac{3}{4}$		
		FNT	eP	Z	16 40 17.5	$\frac{3}{4}$		
504	6	SAV	iP	Z	19 45 23.0	$\frac{3}{4}$	-	Dilatation
		MOO	iP	Z	19 45 27.0	1	-	Dilatation
		FNT	iP	Z	19 45 30.0	$\frac{3}{4}$	-	Dilatation
								USCGS: 15.4 S, 167.8 E
								H 19 39 12.6, h 186 km
505	7	FNT	eP	N_s	08 27 28.0	$\frac{3}{4}$		USCGS: 56.3 S, 26.9 W
			e	N_l	30 58.0	7		H 08 15 22.0, h 99 km
		MOO	iP	Z	08 27 29.5	$\frac{3}{4}$	-	Dilatation
		TRR	eP	Z	08 27 30.5	1		
		SAV	iP	Z	08 27 32.5	1	-	Dilatation
506	7	FNT	eP	N_s	19 36 45.5	$\frac{1}{2}$		
		MOO	iP	Z	19 36 48.0	$\frac{3}{4}$	-	Dilatation
		SAV	iP	Z	19 36 51.0	$\frac{1}{2}$	-	Dilatation
								USCGS: 56.2 S, 27.3 W
								H 19 24 37.0, h 76 km
507	8	SAV	iP	Z	23 49 54.0	$1\frac{1}{4}$	+	Compression
			e	Z	51 42.0	1		
			ePP	Z	51 45.0	$1\frac{1}{2}$		USCGS: 1.6 N, 127.3 E
		TRR	eP	Z	23 49 56.5	$1\frac{1}{4}$		H 23 41 32.2, h 102 km
			ePP	Z	51 46.0	1		
		MOO	iP	Z	23 49 58.5	$1\frac{1}{4}$	+	Compression
			i	Z	51 46.0	1	+	
			iPP	Z	51 50.5	$1\frac{1}{2}$	-	
		FNT	iP	Z	23 50 02.0	$1\frac{1}{4}$	+	Compression
			eP	N_s	50 02.0	1		
			iPP	Z	51 55.5	$\frac{1}{2}$	-	
508	9	MOO	iP	Z	10 49 36.5	1	-	Dilatation
		FNT	iP	Z	10 49 41.5	1	-	Dilatation
								USCGS: 6.7 S, 128.9 E
								H 10 42 10.6, h 21 km
509	9	SAV	eP	Z	23 44 18.0	$\frac{1}{2}$		Regional: near
			eS	Z	44 52.5	$\frac{3}{4}$		Welshpool, Victoria
		MOO	e	Z	23 44 30.0	$\frac{3}{4}$		Felt
			e	Z	45 08.0	$\frac{3}{4}$		
			e	Z	45 17.0	1		
		FNT	iP	Z	23 44 42.0	$\frac{1}{2}$	+	Compression
			i	Z	45 24.5	$\frac{1}{2}$	-	
			iS	N_s	45 32.5	1/3	-	

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o.	Date'61	Stn.	Phase	Cpt.	Time(GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
10	Oct. 10	SAV	eP	Z	00 00 29.5	$\frac{3}{4}$		Regional
			eS	Z	01 02.0	$\frac{3}{4}$		
		MOO	eS	Z	00 01 26.0	$\frac{3}{4}$		
		FNT	iS	N_s	00 01 37.5	$\frac{1}{4}$	-	
			iS	Z	01 38.5	$\frac{1}{2}$	-	
11	10	SAV	eP	Z	00 03 59.0	$\frac{3}{4}$		Regional
			eS	Z	04 33.5	$\frac{3}{4}$		
		MOO	eS	Z	00 04 57.5	1		
		FNT	eS	Z	00 05 10.0	$\frac{3}{4}$		
			eS	N_s	05 10.5	$\frac{1}{2}$		
			e	N_s	05 13.5	$\frac{1}{4}$		
			e	Z	05 14.0	1		
12	10	MOO	iP	Z	03 50 35.5	1	+	Compression
			e	Z	50 56.0	1		
			e	Z	51 05.5	$\frac{3}{4}$		
		FNT	iP	Z	03 50 36.0	$\frac{1}{2}$	+	Compression
			eP	N_s	50 36.5	$\frac{1}{2}$		USCGS: 22.9S, 180.0
			i	Z	50 57.5	$\frac{3}{4}$	-	H 03 44 38.3, h 576 km
13	10	FNT	iP	Z	07 41 51.5	$\frac{3}{4}$	-	Dilatation
14	10	SAV	iP	Z	08 32 49.5	$\frac{3}{4}$	-	Dilatation
			epP	Z	33 23.5	$\frac{1}{2}$		
		TRR	iP	Z	08 32 55.5	$\frac{1}{2}$	-	Dilatation
		FNT	iP	Z	08 32 58.0	$\frac{3}{4}$	-	Dilatation
			iP	N_s	32 59.0	$\frac{1}{2}$	-	USCGS: 5.4 S, 154.3 E
			ipP	Z	33 33.0	$\frac{1}{2}$	+	H 08 25 54.6, h 154 km
15	10	SAV	eP	Z	13 37 05.0	$\frac{3}{4}$		Regional
			eS	Z	37 41.0	1		
		FNT	eP	Z	13 37 26.5	$\frac{1}{2}$		
			e	Z	38 14.5	$\frac{3}{4}$		
			eS	N_s	38 19.5	1/3		
		MOO	e	Z	13 37 58.0	$\frac{3}{4}$		
			eS	Z	38 05.0	$\frac{3}{4}$		
16	10	MOO	eP	Z	17 32 26.5	1		USCGS: 4.7 S, 138.2 E
			iPP	Z	33 56.0	2	-	H 17 24 58.9, h 36 km
			e(ScP)	Z	38 30.5	1		
			M	Z	47.2	5		
		FNT	eP	Z	17 32 31.0	$\frac{3}{4}$		
			i	Z	33 14.0	1	-	
			ePP	N_s	34 02.0	$2\frac{1}{2}$		
			e	E	42 49			
			eL	EZ	45.3	4,9		
			eL	N_l	46.0	24		
			M	E	46.7	16		
			M	Z	47.1	3		
			M	N_s	47.4	5		
			M	N_l	49.9	13		
		SAV	eL	Z	17 45.9	3		
		TRR	eL	Z	17 46.1	4		

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No.	Date'61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
517	Oct. 10	SAV	iP	Z	18 51 35.0	3/4	+	Compression
		MOO	iP	Z	18 51 37.0	3/4	+	Compression
		FNT	iP	Z	18 51 38.0	3/4	-	Dilatation
		TRR	eP	Z	18 51 41.0	1/2		USCGS: 16.1 S, 176.3 W
								H 18 44 28.6, h 361 km
518	10	FNT	e	Z	20 52 51.0	3/4		Local
		MOO	e	Z	20 52 51.0	3/4		
		SAV	e	Z	20 52 51.5	3/4		
519	11	SAV	eP	Z	09 35 02.5	1/2		USCGS: 11.6 S, 166.3 E
		FNT	iP	Z	09 35 08.5	1/2		H 09 28 17.7, h 52 km
520	11	FNT	eP	Z	16 10 03.5	1/2		USCGS: 24.5 S, 179.8 E
								H 16 04 18.0, h 560 km
521	12	SAV	eP	Z	03 51 41.0	1		USCGS: 5.4 N, 126.0 E
		MOO	eP	Z	03 51 46.0	1		H 03 42 50.9, h 124 km
		FNT	eP	Z	03 51 51.5	1/2		
522	12	MOO	eP	Z	08 31 19.5	1		USCGS: 5.6 S, 151.9 E
		FNT	iP	Z	08 31 24.0	1		H 08 24 10.0, h 41 km
523	12	FNT	eP	Z	22 01 50.0	1		USCGS: 60.7 S, 153.8 E
			eL	E	05.7	14		H 21 57 35.0, h 25 km
			eL	N_1	06.6	16		
			M	E	06.8	11		
		MOO	iP	Z	22 01 58.5	1		
		SAV	eP	Z	22 02 06.5	1		
524	13	FNT	iP	Z	05 11 16.0	1		USCGS: 55.9 S, 27.2 W
			iP	N_s	11 16.5	1/2	+	H 04 59 04.8, h 67 km
			ePP	Z	14 23.0	1		
		MOO	iP	Z	05 11 19.0	1		
			ePP	Z	14 25.5	1		
		TRR	eP	Z	o5 11 19.5	1		
525	13	FNT	eP	Z	10 58 37.5	3/4		USCGS: 60.3 S, 34.3 W
		MOO	eP	Z	10 58 41.0	3/4		H 10 46 47.7, h 44 km
526	13	SAV	eP	Z	17 35 10.0	1		USCGS: 22.0 S, 176.9 W
		MOO	eP	Z	17 35 10.5	1		H 17 28 21.5, h 155 km
		FNT	iP	Z	17 35 10.5	1/2		
527	16	FNT	eP	Z	16 17 16.5	3/4		
528	17	FNT	eP	Z	04 39 37.5	1		USCGS: 55.8 S, 0.5 E
			eL	E	05 08.2	18		H 04 27 33.5, h 25 km
		MOO	eP	Z	04 39 45.0	1		
529	18	FNT	eP	Z	02 56 09.0	1/2		
			iPcP	Z	59 10.5	3/4		
		MOO	iP	Z	02 56 11.0	1	+	Compression
			iPcP	Z	59 11.0	3/4	+	
		TRR	eP	Z	02 56 15.0	1		USCGS: 29.9 S, 177.6 W
			ePcP	Z	59 11.5	3/4		H 02 49 59.6, h 65 km

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No.	Date '61	Stn.	Phase	Cpt.	Time (GMT) h. m. s.	Per. s.	Amp.	Remarks
530	18	FNT	iP	N_sZ	17 05 06.5	1	+	Compression
			epP	Z	05 19.5	$\frac{3}{4}$		
			e	E	05 25	1		H 16 51 55
			eSKS	N_l	15 38.5	13		Δ 93°.1, h 0.00 ca
			iS	N_l	16 08.0	8	-	
			eS	E	16 08	13		USCGS: 36.7 S, 72.6 W
			eSS	N_l	22 40.5	19		H 16 52 00.2, h 67 km
			eL	Nl	34.1	21		
			eL	E	41.4	15		
			M	N_l	45.6	15		
		MOO	iP	Z	17 05 10.0	1	+	Compression
			ipP	Z	05 24.0	1	-	
		TRR	eP	Z	17 05 11.0	$\frac{3}{4}$		
		SAV	eP	Z	17 05 14.5	$\frac{3}{4}$		
531	18	FNT	eP	Z	18 23 39.0	$\frac{3}{4}$		USCGS: 36.9 S, 73.5 W
		MOO	eP	Z	18 23 41.5	$1\frac{1}{4}$		H 18 10 30.4, h 55 km
532	19	FNT	eL	N_lE	09 18.6	11		USCGS: 55.2 S, 146.0 E
			M	E	19.8	6		H 09 12 28.5, h 86 km
533	19	FNT	iP	Z	11 32 19.5	$\frac{1}{2}$	+	Compression
			ipP	Z	32 57.5	$\frac{3}{4}$	+	
		MOO	iP	Z	11 32 22.0	1	+	Compression
			ipP	Z	33 00.0	1	+	USCGS: 37.1 S, 69.8 W
								H 11 19 19.6, h 155 km
534	19	FNT	iP	Z	19 29 30.0	$\frac{3}{4}$	-	Dilatation
			eP	N_s	29 31.0	1		
			eP	E	29 33	1		H 19 26 42
			eS	Z	31 41.5	$\frac{3}{4}$		Δ 11.°9
			eL	E	32.2	16		
			eL	N_l	32.5	12		USCGS: 55.3 S, 146.4 E
			M	NE	33.4	9		H 19 26 32.2, h 50 km
			eT	Z	40 41.5	$\frac{1}{2}$		
			eT	N_s	40 47.5	1/3		
			Tmax	N_s	41 15.5	$\frac{1}{4}$		
			Tmax	Z	41 16.5	$\frac{1}{2}$		
		MOO	eP	Z	19 29 38.0	1		
		TRR	eP	Z	19 29 38.0	$\frac{3}{4}$		
535	19	FNT	iP	Z	20 32 03.5	$\frac{1}{2}$	+	Compression
								USCGS: 17.6 S, 174.0 W
								H 20 24 41.9, h 25 km
536	20	TRR	eP	Z	03 56 52.0	1		USCGS: 9.4 S, 160.4 E
		FNT	eP	Z	03 56 54.0	$\frac{3}{4}$		H 03 49 58.2, h 21 km
537	21	MOO	iP	Z	11 50 14.5	$\frac{3}{4}$	-	Dilatation
			e	Z	50 26.0	1		USCGS: 18.0 S, 178.5 W
			iPcP	Z	52 15.0	$\frac{3}{4}$	+	H 11 43 41.3, h 618 km
		FNT	iP	Z	11 50 15.0	$\frac{3}{4}$	-	Dilatation
			eP	N_s	50 15.5	$\frac{1}{4}$		
			iPcP	Z	52 14.5	$\frac{3}{4}$	+	
		TRR	iP	Z	11 50 17,5	1	-	Dilatation
			e	Z	50 31.5	$\frac{3}{4}$		
			iPcP	Z	52 16.0	$\frac{1}{2}$	+	

No.	Date'61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
538	Oct. 21	MOO	eP	Z	17 41 18.5	$\frac{3}{4}$		USCGS: 10.8 S, 166.0 E
			iPcP	Z	43 44.0	$\frac{3}{4}$	-	H 17 34 36.8, h 192 km
		TRR	eP	Z	17 41 19.5	$\frac{3}{4}$		
			iPcP	Z	43 44.5	$\frac{1}{2}$	-	
		FNT	eP	Z	17 41 20.0	$\frac{3}{4}$		
			iPcP	Z	43 44.5	$\frac{3}{4}$	-	
539	22	MOO	eP	Z	09 56 46.0	1		USCGS: 19.9 S, 172.4 E
		FNT	eP	Z	09 56 48.0	$\frac{3}{4}$		H 09 50 43.6, h 181 km
			eL	N_1	10 03.9	19		
			eL	E	05.5			
			M	N_1	06.5	15		
			M	E	07.5	15		
		TRR	eP	Z	09 56 49.0	1		
540	22	MOO	iP	Z	14 47 36.5	$\frac{3}{4}$	-	Dilatation
		FNT	iP	Z	14 47 37.0	$\frac{3}{4}$	-	Dilatation
			e	N_s	47 41.0	$\frac{1}{2}$		USCGS: 17.6 S, 179.6 W
			e	Z	47 46.5	$\frac{3}{4}$	+	H 14 40 56.6, h 549 km
		TRR	iP	Z	14 47 40.0	$\frac{1}{2}$	-	Dilatation
541	22	MOO	iP	Z	18 46 44.0	1	+	Compression USCGS: 17.7 S, 168.2 E H 18 40 25.4, h 41 km
542	23	FNT	eP	Z	00 20 29.5	$1\frac{1}{2}$		H 00 08 42
			i	Z	20 32.0	$1\frac{1}{2}$	-	$\triangle$ 76°.4
			eP	E	20 32.5	2		
			eS	E	30 11			
			e	N_1	30 16.5	12		USCGS: 60.4 S, 33.4 W
			eSS	N_1	35 32.0	10		H 00 08 33.3, h 25 km
			e	E	42 02	24		
			eL	N_1	46.6	34		
			M	E	50.2	16		
			M	N_1	54.4	16		
		MOO	eP	Z	00 20 32.5	2		
			i	Z	20 35.0	$1\frac{1}{2}$	-	
			ePP	Z	23 31.0	$1\frac{1}{2}$		
		TRR	eP	Z	00 20 35.5	$1\frac{1}{2}$		
543	23	TRR	eP	Z	14 48 28.0	1		USCGS: 3.5 N, 126.4 E
		MOO	eP	Z	14 48 28.5	1		H 14 39 33.5, h 25 km
		FNT	eP	Z	14 48 34.0	$\frac{3}{4}$		
			e	N_s	48 39.0	$\frac{1}{2}$		
			ipP	Z	48 48.5	$\frac{3}{4}$	-	
			isP	Z	48 53.5	$\frac{3}{4}$	+	
			eS	E	55 40	9		
			eSS	N_1	59 16.5	17		
			eL	E	15 04.7	35		
			M	N_1	13.2	15		
			M	E	13.5	13		
544	23	FNT	eP	Z	17 19 48.5	$\frac{1}{2}$		USCGS: 16.8 S, 173.6 W H 17 11 55.3, h 49 km
545	23	FNT	iP	Z	19 27 21.5	$\frac{1}{2}$	+	Compression USCGS: 20.1 S, 177.9 W H 19 20 55.7, h 553 km

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No.	Date'61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
546	Oct. 24	TRR	iP	Z	07 35 56.0	3/4	-	Dilatation
		MOO	iP	Z	07 35 57.5	3/4	-	Dilatation
		FNT	iP	Z	07 35 59.5	3/4	-	Dilatation
								USCGS: 45.0 N, 146.4 E
								H 07 25 19.9, h 82 km
547	24	FNT	iP	Z	07 43 28.0	3/4	+	Compression
								USCGS: 16,5 S, 178.3 E
								H 07 36 17.1, h 40 km
548	24	TRR	eP	Z	20 00 08.0	1/4		Local
			eS	Z	00 18.0	1/3		
		FNT	iP	Z	20 00 17.0	1/4	+	Compression
			eP	N_s	00 18.0	1/4		
			eS	$N_s Z$	00 32.5	1/4		
		MOO	e(S)	Z	20 00 20.5	1/2		
549	25	MOO	eP	Z	14 27 49.0	1		
		FNT	iP	Z	14 27 50.5	1	+	Compression
			eL	N_l	40.6	13		USCGS: 20.3 S, 174.1 W
			eL	E	41.0	9		H 14 20 20.8, h 25 km
550	26	SAV	iP	Z	00 45 44.0	1 1/2	+	Compression
			ipP	Z	45 51.5	1 1/4	+	
			i	Z	46 05.5	1 1/4	+	
		TRR	iP	Z	00 45 49.5	1 1/2	+	Compression
			ipP	Z	45 56.0	1 1/4	+	
		MOO	iP	Z	00 45 50.5	1 1/2	+	Compression
			isP	Z	45 57.0	1 1/4	+	
			i	Z	46 00.5	1	+	
		FNT	iP	Z	00 45 53.5	1 1/2	+	Compression
			ipP	Z	46 00.5	1	+	
			i	E	47 11	2	+	H 00 38 18
			eS	E	51 59	22		△ 40°.3, h 0.00 ca
			eS	N_l	52 03.5	12		
			e	N_l	53 34.0	16		USCGS: 3.1 S, 147.4 E
			iSS	E	55 09	14	+	H 00 38 20.3, h 14 km
			eL	E	58.2	24		
			eL	N_l	59.0	20		
			M	N_l	01 01.6	17		
			M	E	08.1	13		
551	26	TRR	eP	Z	15 37 12.0	1 1/2		
			ipP	Z	37 20.5	2	+	
		SAV	iP	Z	15 37 13.5	1	+	Compression
			ipP	Z	37 22.0	1	+	
			i	Z	37 27.5	1	+	USCGS: 0.4 S, 98.6 E
		MOO	i(pP)	Z	15 37 23.5	1	+	H 15 27 02.0, h 18 km
			ePP	Z	39 32.5	1 1/2		
		FNT	e(PS)	N_l	15 46 05.0	17		
			eL	E	57.7	22		
			eL	N_l	16 00.0	24		
			M	E	02.4	20		
			M	N_l	04.3	20		

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No.	Date'61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
552	Oct. 27	FNT	eP	N_s	12 09 01.5	$\frac{1}{2}$		
			eT	N_s	22 18.5	$\frac{1}{4}$		
			Tmax	N_s	22 49.0	$\frac{1}{2}$		
		TRR	eP	Z	12 09 14.0	$\frac{1}{4}$		
			Tmax	Z	23 18.0	$\frac{1}{4}$		
553	27	SAV	iP	Z	20 57 16.5	$\frac{3}{4}$	-	Dilatation
554	28	SAV	iP	Z	01 41 28.5	$\frac{1}{2}$	+	Compression
		MOO	eP	Z	01 41 30.5	1		
		TRR	iP	Z	01 41 34.5	$\frac{1}{2}$	+	Compression USCGS: 17.7 S, 178.9 W H 01 34 59.5, h 605 km
555	28	SAV	eP	Z	22 50 58.0	$1\frac{1}{4}$		USCGS: 13.9 S, 166.0 E
			i	Z	51 23.5	1	-	H 22 44 33.6, h 89 km
		MOO	eP	Z	22 51 05.5	1		
		TRR	eP	Z	22 51 09.5	$\frac{3}{4}$		
		FNT	e	E	22 58 18	12		
			M	E	23 08.8	13		
556	29	FNT	eL	E	10 09.1			USCGS: 49.0 N, 128.7 W H 09 12 15.7, h 16 km
557	30	SAV	eP	Z	17 41 06.0	1		USCGS: 28.5 S, 178.1 W
			epP	Z	41 54.0	1		H 17 35 03.3, h 219 km
		TRR	eP	Z	17 41 09.5	$\frac{1}{2}$		
		MOO	e	Z	17 42 07.0	1		
558	30	SAV	iP	Z	21 26 55.5	1	-	Dilatation
			iPcP	Z	27 16.5	$1\frac{1}{2}$	+	
		TRR	iP	Z	21 26 59.0	1	-	Dilatation
		MOO	eP	Z	21 26 59.5	1		USCGS: 28.9 N, 141.8 E H 21 15 35.2, h 31 km
559	30	SAV	e(P)	Z	22 47 42.5	$\frac{3}{4}$		USCGS: 29.3 N, 141,8 E H 22 36 19.5, h 80 km
560	31	SAV	iP	Z	03 51 47.5	2	+	Compression USCGS: 31.2 S, 178.3 W H 03 46 03.2, h 232 km
561	31	SAV	eP	Z	08 49 11.5	1		
		TRR	iP	Z	08 49 15.0	1	-	Dilatation USCGS: 22.2 N, 143.0 E H 08 39 09.2, h 264 km

Seismograms read by Lesley Read.

JOINT DIRECTORS

Professor S. Warren Carey
Professor Gordon H. Newstead

Box 252c, G.P.O.,
Hobart, Tasmania.

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TASMANIA UNIVERSITY RADIO-TELEMETERED SEISMIC NET

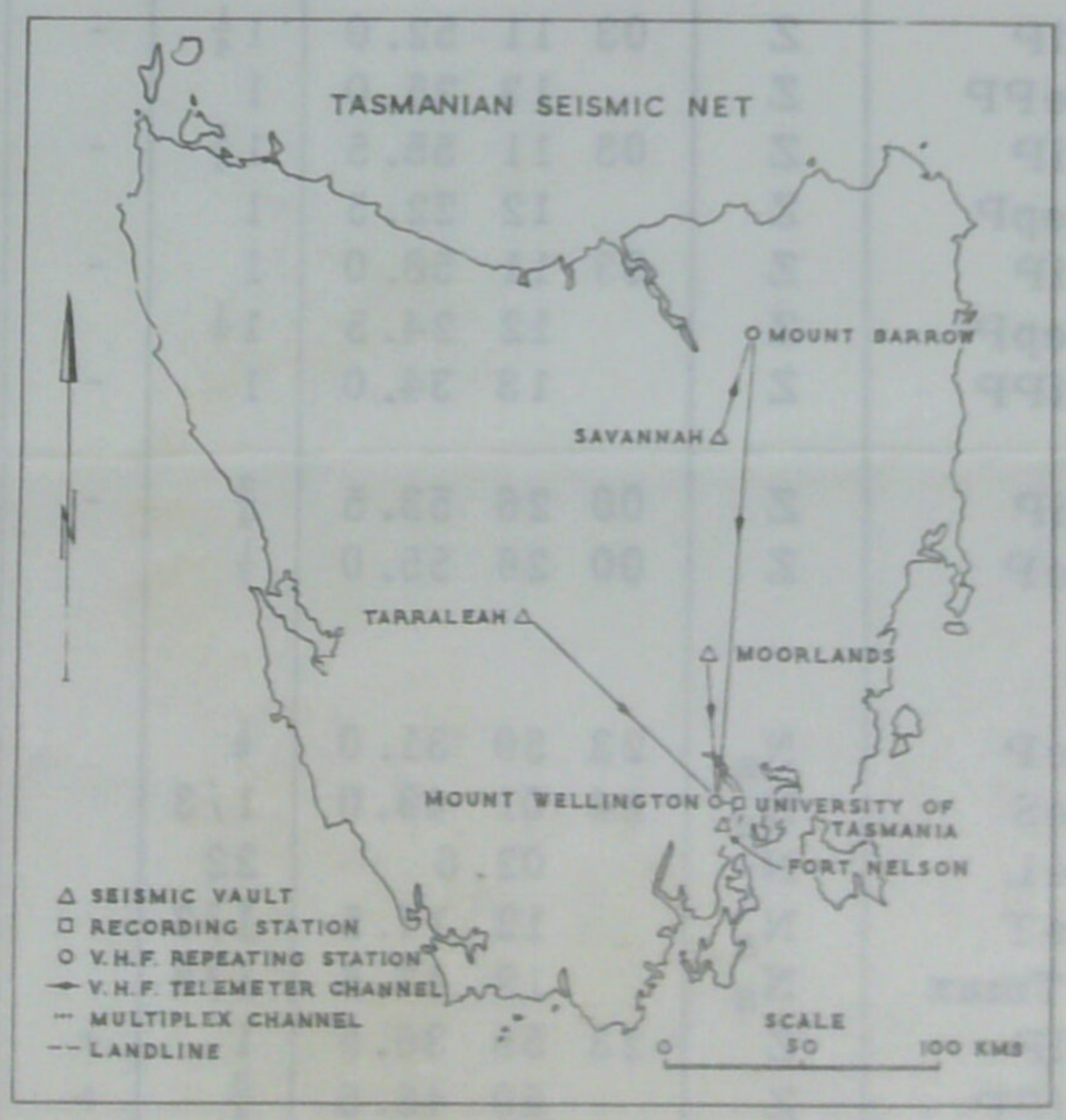
Station Co-ordinates			Altitudes (metres)	Foundations
Fort Nelson (FN)	42°55'35.39"S	147°21'13.02"E	184.1	Dolerite
Tarraleah (T)	42°18'16.34"S	146°27'03.51"E	579.1	Basalt
Moorlands (M)	42°26'33.31"S	147°11'29.26"E	324.6	Top contact of dolerite sill
Savannah (S)	41°43'17.59"S	147°11'22.41"E	179.8	Dolerite

Inter-station distances (metres)		Bearings	Back Bearings
FN – T	101285	~~305~~ 312°42'15"	133°18'55"
FN – M	55375	346°03'28"	166°10'04"
FN – S	134526	354°10'30"	174°17'08"
T – M	62891	104°21'43"	283°51'46"
T – S	89086	43°27'24"	223°07'44"
M – S	80089	359°53'12"	179°53'17"

TIME

All stations are radio-telemetered to record on a single multipen recorder (90 mm. per min., response to 50 cycles per sec.) timed by a Rohdë & Schwartz quartz crystal clock. The system is also recorded in parallel on multi-channel magnetic tape.

Seismometer installations not yet permanent, current installation is given overleaf.



Bulletin overleaf.

PROVISIONAL SEISMOLOGICAL BULLETIN

November, 1961

International Seismological Centre

Instruments

FNT Sprengnether (Series H) EW, pendulum 15.3 sec., galvanometer $6\frac{3}{4}$ sec.
FNT Newstead-Watt horizontal NS, short and long periods.
SAV Willmore short period vertical
MOO Willmore short period vertical
TRR Willmore short period vertical

No.	Date '61	Stn.	Phase	Cpt.	Time (GMT) h. m. s.	Per. s.	Amp.	Remarks
562	Nov. 1	SAV	iP	Z	10 48 49.5	1	+	Compression USCGS: 18.0 S, 178.5 E H 10 42 21.1, h 631 km
563	1	SAV	iP	Z	20 17 11.0	$\frac{3}{4}$	+	Compression USCGS: 17.9 S, 178.4 W H 20 10 41.7, h 629 km
564	1	MOO	e	Z	21 57 26.0	$\frac{1}{2}$		Local
		TRR	e	Z	21 57 28.5	$\frac{1}{4}$		
		SAV	e	Z	21 57 36.5	$\frac{1}{5}$		
565	2	SAV	iP	Z	05 29 18.0	$\frac{3}{4}$	+	Compression
		MOO	iP	Z	05 29 20.0	1	+	Compression
		TRR	iP	Z	05 29 24.0	1/3	+	Compression USCGS: 17.9 S, 178.5 W H 05 22 41.4, h 598 km
566	3	SAV	eP	Z	15 27 34.5	$\frac{1}{2}$		USCGS: 10.5 S, 165.8 E H 15 20 44.5, h 66 km
567	4	SAV	iP	Z	03 11 52.0	$1\frac{1}{4}$	-	Dilatation
			ePP	Z	13 25.0	1		
		TRR	iP	Z	03 11 55.5	$1\frac{1}{4}$	-	Dilatation
			epP	Z	12 22.5	1		
		MOO	iP	Z	03 11 58.0	1	-	Dilatation
			epP	Z	12 24.5	$1\frac{1}{2}$		USCGS: 2.9 S, 137.2 E
			iPP	Z	13 34.0	1	-	H 03 04 21.2, h 51 km
568	5	MOO	iP	Z	00 26 53.5	$\frac{3}{4}$	-	Dilatation
		TRR	eP	Z	00 26 55.0	$\frac{1}{2}$		USCGS: 11.6 S, 166.4 E H 00 20 02.7, h 67 km
569	5	FNT	eP	N_s	23 59 31.0	$\frac{1}{5}$		H 23 56 35
			eS	N_s	24 01 48.0	1/3		Δ 12°.3
			eL	N_l	02.6	22		
			eT	N_s	12 17.5	1/3		
			Tmax	N_s	12 47.5	1/3		
		MOO	iP	Z	23 59 36.5	1	+	Compression
			iPP	Z	59 48.5	$\frac{3}{4}$	+	
			ePPP	Z	59 55.0	$\frac{3}{4}$		USCGS: 49.4 S, 163.3 E
			eT	Z	24 12 26.5	$\frac{1}{2}$		H 23 56 25.4, h 35 km
			Tmax	Z	12 56.5	$\frac{3}{4}$		

(Contd)

No.	Date'61	Stn.	Phase	Cpt.	Time (GMT) h. m. s.	Per. s.	Amp.	Remarks
569		SAV	iP	Z	23 59 41.0	$\frac{3}{4}$	+	Compression
(Contd.)			i	Z	59 48.5	$\frac{3}{4}$	+	
			iPP	Z	59 54.0	1	+	
			e(S)	Z	24 02 06.5	$\frac{1}{2}$		
			eT	Z	12 40.0	$\frac{1}{2}$		
			Tmax	Z	13 37.0	$\frac{1}{2}$		
		TRR	eP	Z	23 59 43.0	$\frac{1}{2}$		H 23 56 29
			ePP	Z	59 54.5	1		Δ 13°.7
			eS	Z	24 02 15.5	$\frac{1}{2}$		
			eT	Z	12 31.5	$\frac{1}{2}$		
			Tmax	Z	13 09.0	1/3		
570	Nov. 6	MOO	iP	Z	05 35 00.0	1	+	Compression
			epP	Z	35 38.0	1		
		TRR	eP	Z	05 35 02.0	1		USCGS: 13.3 S, 166.0 E
		FNT	eS	N_1	05 40 24.0	12		H 05 28 39.3, h 210 km
			eSS	E	42 41	23		
			eL	N_1	43.1			
571	7	SAV	eP	Z	00 46 11.0	$\frac{1}{2}$		USCGS: 21.4 S, 179 .1 W
								H 00 40 05.9, h 653 km
572	7	SAV	iP	Z	13 56 42.0	$\frac{3}{4}$	-	Dilatation
573	9	MOO	eP	Z	01 15 05.5	1		USCGS: 22.0 S, 170.1 E
		SAV	eP	Z	01 15 07.5	$\frac{3}{4}$		H 01 09 16.0, h 33 km
			e	Z	15 30.5	$\frac{3}{4}$		
		TRR	eP	Z	01 15 13.5	1		
		FNT	eL	N_1	01 23.9	15		
			M	N_1	25.1	12		
			eL	E	25.5	14		
574	9	TRR	iP	Z	18 44 36.0	$\frac{1}{2}$	-	Dilatation
		MOO	iP	Z	18 44 39.0	$\frac{3}{4}$	-	Dilatation
								USCGS: 5.9 S, 129.8 E
								H 18 37 11.8, h 87 km
575	10	SAV	iP	Z	18 07 21.5	1	-	Dilatation
		MOO	iP	Z	18 07 24.0	1	-	Dilatation
			i	Z	07 41.0	$\frac{3}{4}$	-	
		FNT	eP	N_s	18 07 26.0	$\frac{3}{4}$		
		TRR	iP	Z	18 07 28.0	1	-	Dilatation
			i	Z	07 42.0	$\frac{3}{4}$	-	USCGS: 17.5 S, 178.8 W
			ePcP	Z	09 26.5	$\frac{3}{4}$		H 18 00 49.6, h 586 km
576	11	TRR	ePn	Z	10 24 51.0	$\frac{1}{4}$		
		MOO	iPn	Z	10 24 59.5	$\frac{1}{2}$	-	Dilatation
			eSg	Z	25 14.5	$\frac{3}{4}$		
			iSn	Z	25 16.5	$\frac{1}{2}$	-	Local
		FNT	ePn	N_sN_1	10 25 00.5	$\frac{1}{2}$		15 miles south of
			eSg	N_sN_1	25 17.0	$\frac{1}{2}$, 18		Macquarie Harbour
		SAV	ePn	Z	10 25 04.0	$\frac{1}{4}$		
577	13	FNT	eL	E	08 00.3	28		USCGS: 3.8 S, 136.3 E
			eL	N_1	02.1	16		H 07 39 53.0, h 34 km
			M	N_1	03.7	11		
			M	E	04.6	14		

International Seismological Centre

No.	Date'61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
578	Nov. 14	SAV	iP	Z	12 44 36.5	$\frac{3}{4}$	+	Compression
		MOO	iP	Z	12 44 37.0	$\frac{3}{4}$	+	Compression
								USCGS: 33.9 S, 179.6 W
								H 12 38 51.9, h 51 km
579	14	TRR	eP	Z	17 23 14.5	1		USCGS: 5.7 S, 104.3 E
			iPcP	Z	24 26.5	$\frac{3}{4}$	+	H 17 14 00.1, h 16 km
		SAV	eP	Z	17 23 16.5	1	-	Dilatation
		MOO	eP	Z	17 23 16.5	1		
580	15	TRR	iP	Z	05 50 29.5	1/3	-	Dilatation
			iS	Z	50 34.5	1/3	-	Local. 11 miles
		SAV	eP	Z	05 50 41.5	$\frac{1}{4}$		West of Sn. Lake
		MOO	eP	Z	05 50 42.0	$\frac{1}{4}$		St. Clair.
			i	Z	50 44.0	1	-	
		FNT	eP	N_s	05 50 46.0	$\frac{1}{2}$		
			i	N_s	50 58.0	$\frac{1}{2}$	-	
581	15	SAV	eP	Z	07 29 43.0	1		
			e	Z	30 36.0	1		
		TRR	iP	Z	07 29 46.0	1	-	Dilatation
			epP	Z	30 00.0	$1\frac{1}{4}$		
			e	Z	30 09.5	$1\frac{1}{4}$		
			e	Z	30 38.5	$\frac{3}{4}$		
		MOO	iP	Z	07 29 46.5	1	-	Dilatation
			epP	Z	30 00.5	1		
			i	Z	30 11.5	1	+	
			e	Z	30 37.5	1		USCGS: 43.1 N, 145.1 E
		FNT	eSKS	N_1	07 40 09.5	9		H 07 17 12.4, h 43 km
			eS	E	40 16	9		
			ePS	N_1	41 13.5	13		
			eSS	N_1	45 45.0	24		
			eL	E	52.8	49		
			eL	N_1	54.2	35		
			M	E	08 00.4	26		
			M	N_1	04.3	28		
582	15	SAV	eP	Z	10 23 22.0	1		H 10 20 11
			eS	Z	25 51.5	$\frac{3}{4}$		$\triangle 13^{o}.5$
			eT	Z	37 40.0	$\frac{1}{2}$		
			Tmax	Z	38 04.5	$\frac{1}{2}$		
		FNT	eT	N_s	10 37 18.0	$\frac{1}{2}$		
			Tmax	N_s	37 49.5	$\frac{1}{2}$		
		MOO	eT	Z	10 37 24.5	$\frac{1}{2}$		
			Tmax	Z	37 47.5	$\frac{3}{4}$		
		TRR	eT	Z	10 37 33.0	1/3		
			Tmax	Z	38 06.5	$\frac{1}{2}$		
583	16	SAV	eP	Z	16 10 09.5	$\frac{3}{4}$		
			esP	Z	10 23.5	$\frac{3}{4}$		
		MOO	iP	Z	16 10 13.5	1	-	Dilatation
		TRR	eP	Z	16 10 18.0	1		
		FNT	eL	N_1	16 17.4	25		USCGS: 20.2 S, 172.9 E
			eL	E	18.9	15		H 16 03 54.8, h 32 km
			M	N_1	20.2	14		
584	17	SAV	eP	Z	08 20 21.0	$\frac{3}{4}$		
		MOO	iP	Z	08 20 24.5	$\frac{3}{4}$	+	Compression
		TRR	iP	Z	08 20 27.0	$\frac{3}{4}$	+	Compression
								USCGS: 17.7 S, 178.6 W
								H 08 13 49.8, h 598 km

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No.	Date '61	Stn.	Phase	Cpt.	Time(GMT) h. m. s.	Per. s.	Amp.	Remarks
585	Nov. 17	SAV	eP	Z	19 11 04.5	1		USCGS: 19.6 S, 175.5 W
		TRR	eP	Z	19 11 06.5	1		H 19 03 55.4, h 220 km
		MOO	i	Z	19 11 50.5	1	-	
586	18	TRR	eP	Z	06 10 46.5	¾		USCGS: 0.9 S, 126.9 E
			epP	Z	10 58.0	1		H 06 02 34.3, h 38 km
		MOO	eP	Z	06 10 54.0	1		
			e	Z	11 02.0	1		
587	18	SAV	eP	Z	11 23 31.0	1		
		MOO	iP	Z	11 23 32.0	1	-	Dilatation
			e	Z	26 29.5	1		
		FNT	eP	N_s	11 23 34.5	¾		USCGS: 27.0 S, 176.3 W
			eL	N_l	33.5	14		H 11 16 56.8, h 61 km
			eL	E	35.6	18		
			M	N_l	36.4	12		
			M	E	37.1	17		
		TRR	iP	Z	11 23 36.5	1	-	Dilatation
588	18	TRR	eP	Z	18 40 20.0	1		
		MOO	iP	Z	18 40 23.5	¾	-	Dilatation
			i	Z	41 06.0	¾	-	
589	18	SAV	(eP)	Z	22 20 58.0	¾		USCGS: 23.7 N, 121.8 E
			e	Z	21 05.0	1		H 22 09 53.4, h 60 km
			i	Z	21 30.0	¾	-	
		TRR	eP	Z	22 21 00.5	1		
			e	Z	21 13.0	1		
		MOO	e(P)	Z	22 21 12.5	1		
590	19	TRR	eP	Z	10 19 47.5	1		USCGS: 7.0 S, 154.8 E
		MOO	eP	Z	10 19 54.0	¾		H 10 12 51.2, h 85 km
591	19	SAV	iP	Z	23 30 14.0	1	-	Dilatation
		TRR	iP	Z	23 30 16.0	¾	-	Dilatation
			iPcP	Z	31 44.5	1	-	
			iScP	Z	35 20.0	1	-	
		MOO	iP	Z	23 30 18.5	¾	-	Dilatation
			iScP	Z	35 21.5	1	-	
		FNT	eP	N_s	23 30 22.0	¾		H 23 21 57
			eP	N_l	30 22.5	3		△ 48°.0, h 0.02
			e	E	30 34	1		
			iS	E	37 06	5	+	
			e	E	39 49	10		
			eSS	N_l	23 40 53.0	15		USCGS: 0.8 N, 124.3 E
			eL	E	46.0	27		H 23 21 55.5, h 157 km
			eL	N_l	46.9	23		
			M	E	47.1	24		
592	20	SAV	eP	Z	11 50 08.0	1		USCGS: 21.8 S, 169.9 E
		MOO	eP	Z	11 50 13.5	1		H 11 44 19.4, h 33 km
		TRR	eP	Z	11 50 17.0	1		
		FNT	eS	E	11 55 00	12		
			iSS	N_l	56 23.5	9	-	
			eL	E	56.8	24		
			eL	$N_s N_l$	58.7	15		
			M	E	59.7	15		
			M	N_l	12 00.6	12		

International Seismological Centre

No.	Date '61	Stn.	Phase	Cpt.	Time(GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
593	Nov. 20	MOO	ePKP	Z	18 19 33.0	1¼		USCGS: 31.3 N, 40.9 W H 17 18 17.5, h 44 km
594	20	TRR	iP	Z	23 18 10.0	¾	-	Dilatation USCGS: 28.3 N, 138.9 E H 23 07 47.5, h 525 km
595	22	MOO	eP	Z	02 51 24.5	1		USCGS: 21.6 S, 169.9 E H 02 45 26.7, h 74 km
596	22	MOO	eP	Z	11 12 35.0	1		USCGS: 21.5 S, 169.8 E
		FNT	eL	E	11 20.6	22		H 11 06 40.5, h 41 km
			eL	N_1	21.2	14		
			M	E	23.3	16		
597	22	MOO	i	Z	18 52 30.5	¾	+	
598	22	SAV	iP	Z	20 45 50.5	1	+	Compression
		MOO	iP	Z	20 45 53.5	1	+	Compression
		TRR	eP	Z	20 45 56.0	1		
		FNT	eL	E	20 58.3	16		USCGS: 26.8 S, 176.6 W
			M	E	21 01.2	17		H 20 39 18.6, h 77 km
599	24	SAV	iP	Z	06 24 42.0	1	+	Compression
		TRR	eP	Z	06 24 48.5	½		USCGS: 18.0 S, 178.4 W H 06 18 11.2, h 593 km
600	25	SAV	iP	Z	14 18 18.5	1	+	Compression
			ipP	Z	18 31.0	¾	+	
			iPcP	Z	20 45.0	¾	+	
			ipPcP	Z	20 59.0	¾	-	
		MOO	iP	Z	14 18 24.0	1	+	Compression
			ePcP	Z	20 47.0	1		
			ipPcP	Z	21 01.0	1	-	
		TRR	iP	Z	14 18 24.5	1	+	Compression
			epP	Z	18 37.5	¾		
			iPcP	Z	20 47.0	¾	+	USCGS: 6.3 S, 154.8 E
			epPcP	Z	21 00.5	1		H 14 11 23.2, h 83 km
		FNT	iP	N_s	14 18 28.0	¾	-	
601	26	SAV	iP	Z	03 38 05.5	¾	-	Dilatation
		MOO	iP	Z	03 38 06.0	¾	-	Dilatation USCGS: 33.5 S, 177.5 W H 03 32 07.7, h 59 km
602	27	MOO	iP	Z	02 06 20.0	1	-	Dilatation
		SAV	iP	Z	02 06 24.0	1	-	Dilatation USCGS: 56.4 S, 28.2 W H 01 54 20.6, h 163 km
603	27	TRR	iP	Z	10 58 06.0	¾	-	Dilatation
		MOO	iP	Z	10 58 10.5	1	-	Dilatation
		SAV	iP	Z	10 58 14.5	1	-	Dilatation USCGS: 49.8 S, 121.7 E H 10 53 45.2, h 25 km
604	27	SAV	iP	Z	17 18 51.5	2	+	Compression
			iPcP	Z	20 38.5	1½	+	
		TRR	iP	Z	17 18 53.0	1½	+	Compression
			iPcP	Z	20 39.0	2	+	

(Contd.)

International Seismological Centre

No.	Date '61	Stn.	Phase	Cpt.	Time(GMT) h. m. s.	Per s.	Amp.	Remarks
604 (Contd)		MOO	iP	Z	17 18 55.0	1½	+	Compression
			ePcP	Z	20 42.0	2		
			epPcP	Z	20 58.0	1½		
		FNT	eP	$N_s N_l$	17 19 02.0	2, 9		H 17 10 36
			e	E	19 08	5		$\Delta 46^o.5$, h 0.00
			i	E	19 30	6	+	
			eS	N_l	25 47.5	13		USCGS: 0.6 S, 127.1 E
			iS	E	25 52	7	+	H 17 10 33.3, h 25 km
			i(SS)	E	29 10	17	+	
			e(SS)	N_l	29 11.0	28		
			eL	E	32.0	39		
			eL	N_l	33.5	32		
			M	N_l	39.1	18		
			M	E	41.7	15		
605	Nov. 27	TRR	eP	Z	23 35 08.0	¾		USCGS: 60.6 S, 156.9 E
		SAV	eP	Z	23 35 13.0	¾		H 23 30 46.4, h 46 km
		FNT	eS	E	23 38 29	10		
			eL	E	39.5	12		
			eL	N_l	39.6	19		
			M	E	40.9	10		
			M	N_l	41.7	10		
606	28	FNT	iP	N_s	18 37 57.0	1	+	H 18 34 27
			eS	E	40 42	6		$\Delta 14^o.9$
			eL	$N_l E$	41.1	13, 19		
			M	$N_l E$	41.8	13		USCGS: 56.9 S, 143.5 E
		MOO	eP	Z	18 38 02.5	1		H 18 34 37.4, h 51 km
		TRR	eP	Z	18 38 05.5	1		
			ePP	Z	38 13.0	1		
		SAV	eP	Z	18 38 13.0	1¼		
			iPP	Z	38 19.0	1	+	
607	29	TRR	e	Z	02 07 35.5	¼		Local
608	29	FNT	eG	E	10 10.0	51		USCGS: 38.3 S, 19.4 W H 09 28 12.7, h 25 km
609	29	SAV	eP	Z	22 01 31.5	¾		USCGS: 23.1 S, 170.9 E
			epP	Z	01 40.5	1½		H 21 55 44.7, h 29 km
		FNT	eL	$N_l E$	22 09.1	20		
			M	N_l	10.5	15		
			M	E	11.1	18		
610	29	SAV	eP	Z	23 21 17.5	¾		USCGS: 38.0 S, 177.7 E H 23 16 09.1, h 68 km
611	30	SAV	eP	Z	16 54 40.5	¾		USCGS: 3.3 S, 127.2 E
		TRR	eP	Z	16 54 43.0	1		H 16 46 51.5, h 75 km
612	30	SAV	iP	Z	20 10 08.0	1	-	Dilatation
		TRR	eP	Z	20 10 14.0	1		USCGS: 18.6 S, 179.0 W H 20 03 29.0, h 431 km

Seismograms read by Lesley Read.

International Seismological Centre

MAY 8 - 1962

DEC 1961

JOINT DIRECTORS

Professor S. Warren Carey
Professor Gordon H. Neustead

Box 252c, G.P.O.,
Hobart, Tasmania

International Seismological Centre

TASMANIA UNIVERSITY RADIO-TELEMETERED SEISMIC NET

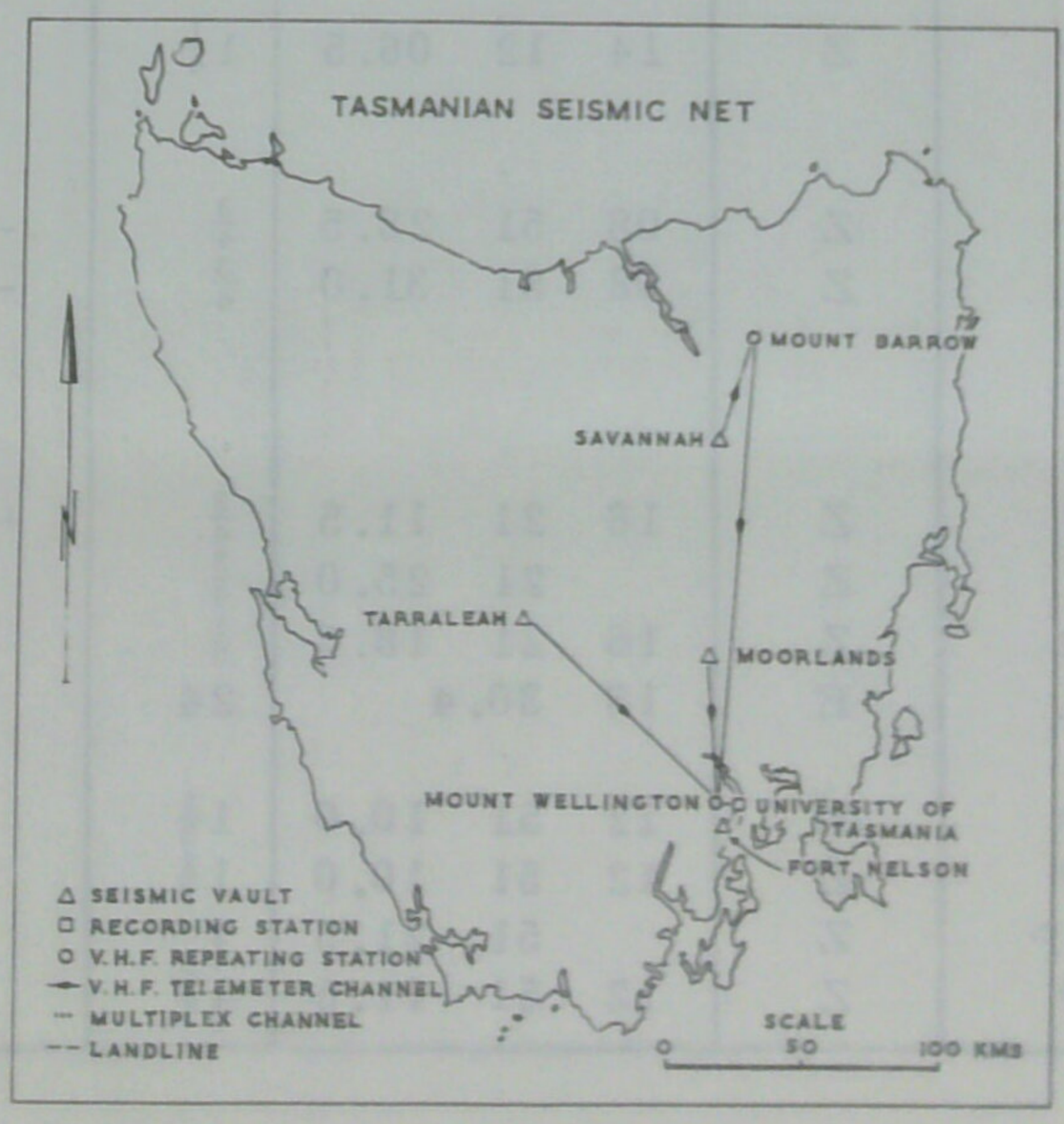
Station Co-ordinates			Altitudes (metres)	Foundations
Fort Nelson (FN)	42°55'35.39"S	147°21'13.02"E	184.1	Dolerite
Tarraleah (T)	42°18'16.34"S	146°27'03.51"E	579.1	Basalt
Moorlands (M)	42°26'33.31"S	147°11'29.26"E	324.6	Top contact of dolerite sill
Savannah (S)	41°43'17.59"S	147°11'22.41"E	179.8	Dolerite

Inter-station distances (metres)		Bearings	Back Bearings
FN – T	101285	312 ~~305~~°42'15"	133°18'55"
FN – M	55375	346°03'28"	166°10'04"
FN – S	134526	354°10'30"	174°17'08"
T – M	62891	104°21'43"	283°51'46"
T – S	89086	43°27'24"	223°07'44"
M – S	80089	359°53'12"	179°53'17"

TIME

All stations are radio-telemetered to record on a single multipen recorder (90 mm. per min., response to 50 cycles per sec.) timed by a Rohdë & Schwartz quartz crystal clock. The system is also recorded in parallel on multi-channel magnetic tape.

Seismometer installations not yet permanent, current installation is given overleaf.



Bulletin overleaf.

PROVISIONAL SEISMOLOGICAL BULLETIN

December 1961

International Seismological Centre

nstruments

'NT Sprengnether (Series H) EW, pendulum 15.3 sec., galvanometer $6\frac{3}{4}$ sec.
'NT Newstead-Watt horizontal NS, short and long periods
NT Willmore short period vertical
AV Willmore short period vertical
IOO Willmore short period vertical
'RR Willmore short period vertical

o.	Date' 61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
3	Dec. 1	TRR	eP	Z	07 02 07.5	$\frac{3}{4}$		USCGS: 3.6 S, 152.5 E H 06 55 10.9, h 342 km
4	1	TRR	eP	Z	09 23 26.5	1		USCGS: 6.0 S, 130.8 E H 09 16 06.9, h 85 km
5	1	SAV	iP	Z	21 24 01.0	$\frac{1}{2}$	-	Dilatation
			isP	Z	25 21.0	$1\frac{1}{4}$	+	
		TRR	iP	Z	21 24 03.5	$\frac{1}{2}$	-	Dilatation
			i(sP)	Z	25 20.5	1	+	
		FNT	iP	N_s	21 24 07.5	$\frac{1}{2}$	-	USCGS: 26.5 N, 124.9 E
			eL	E	47.6	18		H 21 13 04.1, h 206 km
5	2	SAV	iPKP	Z	13 00 01.0	$\frac{3}{4}$	-	Dilatation USCGS: 36.5 N, 8.6 E H 12 40 17.8, h 62 km
	2	SAV	eP	Z	14 12 06.5	$1\frac{1}{4}$		USCGS: 16.9 S, 168.2 E H 14 06 10.0, h 219 km
	3	SAV	iP	Z	08 51 28.5	$\frac{3}{4}$	-	Dilatation
		TRR	iP	Z	08 51 31.0	$\frac{3}{4}$	-	Dilatation USCGS: 25.0 N, 122.9 E H 08 40 20.6, h 91 km
	3	SAV	iP	Z	16 21 11.5	$\frac{3}{4}$	+	Compression
			e	Z	21 25.0	$\frac{3}{4}$		
		TRR	eP	Z	16 21 18.5	$\frac{1}{2}$		USCGS: 11.6 S, 166.1 E
		FNT	eL	E	16 30.4	24		H 16 14 31.4, h 122 km
	4	SAV	eP	Z	12 51 10.0	$1\frac{1}{2}$		USCGS: 33.2 N, 95.3 E
		TRR	eP	Z	12 51 10.0	$1\frac{1}{2}$		H 12 38 11.9, h 45 km
			epP	Z	51 21.5	1		
		MOO	eP	Z	12 51 11.5	$1\frac{1}{2}$		

No.	Date '61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
					h. m. s.	s.		
21	Dec. 5	FNT	iP	N_1	13 03 20.5	2,18	+	USCGS: 50.8 S, 139.8
			iP	E	03 21	2,18	-	H 13 01 04.7, h 64 km
			iP	N_s	03 22.0	$1\frac{1}{2}$	-	
			iL	N_1E	05.5	8,19	+	
			M	E	06.2	15		
			eT	N_s	11 29.0	$\frac{1}{2}$		
			Tmax	N_s	12 53.0	$\frac{1}{2}$		
		TRR	eiP	Z	13 03 24.5	2	+	Compression
			eL	Z	06.1	6		
			M	Z	09.2	6		
			eT	Z	11 51.5	$\frac{1}{2}$		
			Tmax	Z	12 44.0	$\frac{1}{2}$		
		MOO	eP	Z	13 03 27.0			
		SAV	eiP	Z	13 03 34.0	$1\frac{1}{2}$	+	Compression
			Tmax	Z	12 50.0	$\frac{1}{2}$		
22	5	SAV	e	Z	13 08 43.0	$\frac{3}{4}$		USCGS: 16.0 S, 168.1
		TRR	eP	Z	13 08 43.5	1		H 13 02 31.9, h 195 km
23	6	TRR	ep	Z	06 00 12.5	1		USCGS: 13.7 N, 93.6 E
								H 05 48 39.3, h 53 km
24	6	SAV	eP	Z	13 42 43.5	2		USCGS: 23.5 S, 176.0
		TRR	eP	Z	13 42 51.5	$\frac{3}{4}$		H 13 35 43.8, h 18 km
		FNT	eL	E	13 54.6			
			eL	N_1	55.1	13		
25	6	SAV	iP	Z	16 52 38.5	1	+	Compression
		TRR	iP	Z	16 52 41.5	1	+	Compression
		MOO	eP	Z	16 52 42.0	1		USCGS: 49.4 N, 155.2
								H 16 39 31.5, h 22 km
26	8	TRR	eP	Z	09 44 11.0	$\frac{3}{4}$		USCGS: 1.8 S, 139.4 E
		MOO	eP	Z	09 44 13.0	1		H 09 36 24.9, h 55 km
		FNT	eL	E	10 00.0	20		
			M	E	01.0	15		
			eL	N_1	03.0	15		
27	9	SAV	iP	Z	04 31 31.0	1	-	Dilatation
								USCGS: 35.9 S, 179.3
								H 04 25 56.6, h 60 km
28	9	MOO	iP	Z	10 58 53.0	1	+	Compression
		SAV	eP	Z	10 58 59.0	1		
29	9	MOO	iP	Z	11 30 51.0	$1\frac{1}{2}$	-	Dilatation
		SAV	eP	Z	11 30 52.0	$1\frac{1}{2}$		
		TRR	iP	Z	11 30 52.5	$1\frac{1}{4}$	-	Dilatation
		FNT	e(S)	N_1E	11 41 29.5	8		
			eSS	E	46 58	14		USCGS: 43.7 S, 75.2 W
			eL	E	54.1	25		H 11 18 08.9, h 34 km
			eL	N_1	57.0	17		

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.	Date '61	Stn.	Phase	Cpt.	Time (GMT)			Per.	Amp.	Remarks
					h.	m.	s.	s.		
0	Dec. 9	MOO	iP	Z	19	55	42.0	$\frac{3}{4}$	+	Compression
			i	Z		57	37.0	1	+	USCGS: 21.7 S, 179.9 E
			eScP	Z	20	00	54.0	1		H 19 49 41.3, h 620 km
		FNT	iP	N_s	19	55	44.5	$\frac{3}{4}$	-	
		TRR	iP	Z	19	55	42.0	1	+	Compression
			eScP	Z	20	00	56.0	1		
1	12	FNT	eL	E	04	17.3		11		USCGS: 4.3 S, 127.2 E
			M	E		19.5		13		H 03 55 10.2, h 65 km
2	12	TRR	eP	Z	23	18	53.5	$\frac{3}{4}$		USCGS: 43.4 N, 146.2 E
		MOO	eP	Z	23	18	53.5	$\frac{3}{4}$		H 23 06 18.4, h 44 km
3	13	FNT	eL	E	17	04.2		24		USCGS: 18.9 S, 168.4 E
										H 16 49 50.4, h 30 km
4	14	TRR	eP	Z	07	17	56.0	$\frac{3}{4}$		
			eL	Z		32.4		4		
			eL	Z		35.5		9		
			M	Z		35.8		9		
		FNT	iP	N_s	07	17	58.5	$\frac{1}{2}$	+	H 07 10 19
			eP	N_1		17	59.0	3		Δ 40°.8
			e	E		18	06	12		
			eS	E		24	07	13		
			e	N_1		24	13.5	13		USCGS: 3,1 S, 140.9 E
			eSS	E		27	02	14		H 07 10 23.2, h 44 km
			eL	E		30.1		38		
			eL	N_1		30.9		21		
			M	E		34.9		15		
			M	N_1		36.4		10		
		MOO	eL	Z	07	35.2		8		
			M	Z		36.2		8		
	14	MOO	eP	Z	12	22	28.0	1		USCGS: 7.8 S, 120.5 E
		TRR	e	Z	12	22	30.5	1		H 12 14 38.9, h 62 km
	15	MOO	eP	Z	12	43	23.5	1		USCGS: 5.5 S, 147.2 E
		FNT	eP	Z	12	43	27.5	$\frac{3}{4}$		H 12 36 30.7, h 181 km
	16	FNT	eL	E	10	19.3		15		USCGS: 23.9 S, 175.4 W
			M	E		24.8		13		H 09 59 11.8, h 25 km
	17	FNT	iP	Z	22	15	21.0	$\frac{3}{4}$	+	Compression
			iP	N_s		15	22.0	$1\frac{1}{4}$	-	
			eP	E		15	24	1		USCGS: 54.5 S, 143.9 E
			eL	N_1E		18.1		15		H 22 12 32.3, h 45 km
			M	E		18.7		11		
			M	N_1		18.8		10		
		MOO	iP	Z	22	15	28.0	$1\frac{1}{4}$	+	Compression
			i	Z		15	33.0	$1\frac{1}{4}$	+	
			iPP	Z		15	38.0	1	+	
		TRR	iP	Z	22	15	28.5	1	+	Compression

No.	Date' 61	Stn.	Phase	Cpt.	Time (GMT) h. m. s.	Per. s.	Amp.	Remarks
39	Dec. 19	FNT	eP	Z	15 50 19.0	½		USCGS: 5.0 N, 127.2 E
								H 15 41 15.0, h 33 km
40	20	FNT	iPKP	Z	13 44 18.0	½	+	Compression
			eG	E	14 18.5	50		
		MOO	iPKP	Z	13 44 19.0	1	+	Compression
			i	Z	47 21.0	1	+	
		TRR	iPKP	Z	13 44 20.0	1	+	Compression
								USCGS: 4.6 N, 75.6 W
								H 13 25 34.4, h 176 km
41	22	MOO	iP	Z	22 17 34.0	1	-	Dilatation
		FNT	iP	Z	22 17 36.5	¾	-	Dilatation
								USCGS: 14.7 S, 167.3
								H 22 11 07.6, h 74 km
42	22	FNT	eP	Z	22 56 25.0	½		USCGS: 18.6 N, 145.6
			epP	Z	57 02.5	½		H 22 46 24.6, h 155 km
43	24	MOO	eP	Z	02 47 39.5	¾		USCGS: 3.4 S, 140.3 E
			ePP	Z	49 19.0	1		H 02 40 07.6, h 19 km
		FNT	eP	Z	02 47 42.0	½		
			eSSS	E	57 14	11		
			eL	E	59.4	28		
			eL	N_1	03 00.6	14		
			M	E	02.7	16		
			M	N_1	05.9	17		
44	24	MOO	iP	Z	09 26 31.0	1	+	Compression
		FNT	eP	Z	09 26 32.0	¾		USCGS: 20.4 S, 173.6
			eL	E	40.7	17		H 09 19 02.7, h 45 km
45	25	FNT	e	E	00 07 20	17		USCGS: 38.3 S, 74.6 W
			eL	E	30.1			H 23 43 19.2, h 31 km
46	25	MOO	eP	Z	08 08 57.0	1		
		FNT	eL	E	08 22.6			USCGS: 3.7 S, 127.7 E
								H 08 00 59.3, h 47 km
47	25	MOO	iP	Z	08 21 27.0	½	-	Dilatation
			e	Z	21 30.5	1		
			ipP	Z	21 39.0	1	+	USCGS: 1.1 S, 126.7 E
			isP	Z	21 45.0	1	-	H 08 13 07.2, h 25 km
		FNT	eP	Z	08 21 30.0	½		
48	25	MOO	eP	Z	09 17 11.5	1¼		USCGS: 3.7 S, 127.7
		FNT	eL	E	09 31.5	24		H 09 09 07.4, h 54 km
49	25	MOO	eP	Z	09 22 07.5	1		USCGS: 3.8 S, 127.5
								H 09 14 12.1, h 42 km

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Date' 61	Stn.	Phase	Cpt.	Time (GMT)	Per.	Amp.	Remarks
				h. m. s.	s.		
Dec. 25	SAV	eP	Z	14 03 05.0	1		
	MOO	iP	Z	14 03 07.0	1	-	Dilatation
	FNT	iP	Z	14 03 07.5	$\frac{3}{4}$	+	Compression
		eL	E	16.3	18		USCGS: 20.4 S, 173.7 W
	TRR	eP	Z	14 03 10.5	1		H 13 55 38.8, h 64 km
26	TRR	eP	Z	04 32 52.0	$\frac{3}{4}$		USCGS: 5.5 S, 110.7 E
		ePcP	Z	34 08.0	$\frac{3}{4}$		H 04 24 55.4, h 566 km
	MOO	iP	Z	04 32 55.0	$\frac{3}{4}$	-	Dilatation
		e	Z	34 02.5	1		
	FNT	iP	Z	04 32 57.5	1	-	Dilatation
		ePcP	Z	34 11.5	$\frac{3}{4}$		H 04 24 51
		eS	E	39 28	14		Δ 49° .4 (h0.07)
26	MOO	eP	Z	06 29 03.5	1		USCGS: 44.2 S, 38.1 E
	FNT	eS	E	06 38 30			H 06 17 30.6, h 22 km
		eSS	E	43 10	15		
		eL	N_1	49.4	28		
		eL	E	51.4	22		
		M	E	55.5	17		
		M	N_1	56.6	16		
27	FNT	iP	Z	07 24 37.0	$\frac{3}{4}$	-	Dilatation
							USCGS: 18.7 S, 177.5 W
							H 07 18 04.5, h 616 km
27	FNT	iP	Z	23 52 45.0	$\frac{3}{4}$	+	Compression
		e	E	52 49	1,22		
		e	N_1	52 50.5	15		USCGS: 41.2 S, 175.7 E
		i(S)	N_1E	56 50.5	17	+	H 23 48 01.3, h 57 km
		iL	N_1	58.2	20	+	
		eL	E	58.5	21		
		M	E	59,5	17		
	SAV	eP	Z	23 52 50.0	1		
29	MOO	iP	Z	00 02 38.0	$1\frac{1}{4}$	+	Compression
		e	Z	03 27.5	1		USCGS: 12.4 S, 166.3 E
	TRR	eP	Z	00 02 40.0	1		H 23 55 57.6, h 100 km
		e	Z	03 21.0	$1\frac{1}{4}$		(on 28th)
	FNT	iP	Z	00 02 41.0	$\frac{3}{4}$	+	Compression
29	MOO	eP	Z	10 07 38.5	1		USCGS: 6.3 S, 154.5 E
	TRR	eP	Z	10 07 39.0	1		H 10 00 33.1, h 44 km
	FNT	iP	Z	10 07 43.0	$\frac{3}{4}$	+	Compression
30	FNT	e	E	01 17 51			USCGS: 6.3 S, 154.5 E
		eG	E	20.5	34		H 00 39 24.1, h 52 km
		eG	N_1	21.1	28		
		eL	E	30.0	21		
		eL	N_1	33.7	17		

Seismograms read by
Lesley Read.